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OM protein - protein search, using sw model

Run on: September 9, 2004, 22:21:53 ; Search time 63 Seconds
(without alignments)
769.991 Million cell updates/sec

Title: US-09-887-855-2
Perfect score: 2000
Sequence: 1 MRPGTALQAVLLAVLLVGLR.....PDQMGRSKESGWENEIYGY 374
Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5
Searched: 704768 seqs, 129704438 residues

Total number of hits satisfying chosen parameters: 704768

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Pending Patents AA New:*
1: /cgn2_6/ptodata/2/paa/PCT_NEW_COMB.pep:*
2: /cgn2_6/ptodata/2/paa/US06_NEW_COMB.pep:*
3: /cgn2_6/ptodata/2/paa/US07_NEW_COMB.pep:*
4: /cgn2_6/ptodata/2/paa/US08_NEW_COMB.pep:*
5: /cgn2_6/ptodata/2/paa/US09_NEW_COMB.pep:*
6: /cgn2_6/ptodata/2/paa/US10_NEW_COMB.pep:*
7: /cgn2_6/ptodata/2/paa/US60_NEW_COMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	1990	99.5	374	6 US-10-100-683-8305	Sequence 8305, Ap
2	1986	99.3	382	6 US-10-797-366-137	Sequence 137, App
3	1986	99.3	382	6 US-10-771-187-137	Sequence 137, App
4	1982	99.1	387	1 PCT-US04-09202-861	Sequence 861, App
5	1979	99.0	374	1 PCT-US04-09202-1040	Sequence 1040, Ap
6	1805	90.2	356	1 PCT-US04-09202-363	Sequence 363, App
7	1784	89.2	358	6 US-10-170-205E-35136	Sequence 35136, A
8	1765.5	88.3	389	1 PCT-US04-09202-1010	Sequence 1010, Ap
9	1198.5	59.9	260	6 US-10-897-911-3	Sequence 3, Appli
10	1198.5	59.9	260	6 US-10-898-615-3	Sequence 3, Appli
11	645	32.2	273	6 US-10-152-372-540	Sequence 540, App
12	645	32.2	273	6 US-10-123-155-540	Sequence 540, App
13	645	32.2	273	6 US-10-063-685-168	Sequence 168, App
14	645	32.2	273	6 US-10-143-117-540	Sequence 540, App
15	645	32.2	273	6 US-10-127-823A-540	Sequence 540, App
16	645	32.2	273	6 US-10-884-091-18	Sequence 18, Appli
17	645	32.2	273	6 US-10-897-911-2	Sequence 2, Appli
18	645	32.2	273	6 US-10-923-540	Sequence 540, App
19	645	32.2	273	6 US-10-898-615-2	Sequence 2, Appli
20	645	32.2	273	6 US-10-142-426-540	Sequence 540, App
21	645	32.2	273	6 US-10-141-756-540	Sequence 540, App
22	645	32.2	273	6 US-10-919-654-3	Sequence 3, Appli
23	645	32.2	273	6 US-10-919-654-12	Sequence 12, Appli
24	645	32.2	273	6 US-10-919-654-15	Sequence 15, Appli
25	645	32.2	273	6 US-10-919-654-56	Sequence 56, Appli
26	645	32.2	273	6 US-10-141-761-540	Sequence 540, App

27	645	32.2	273	6 US-10-140-472-540	Sequence 540, App
28	645	32.2	273	6 US-10-140-805-540	Sequence 540, App
29	645	32.2	273	6 US-10-140-864-540	Sequence 540, App
30	645	32.2	273	6 US-10-141-759-540	Sequence 540, App
31	645	32.2	273	6 US-10-141-761-540	Sequence 540, App
32	645	32.2	273	6 US-10-142-885-540	Sequence 540, App
33	645	32.2	273	6 US-10-146-731-540	Sequence 540, App
34	576	28.8	232	6 US-10-170-205E-32318	Sequence 32318, A
35	576	28.8	232	6 US-10-917-503-14520	Sequence 14520, A
36	576	28.8	232	6 US-10-919-654-5	Sequence 5, Appli
37	576	28.8	232	6 US-10-919-654-7	Sequence 7, Appli
38	576	28.8	232	6 US-10-919-654-13	Sequence 13, Appli
39	576	28.8	232	6 US-10-919-654-16	Sequence 16, Appli
40	576	28.8	232	6 US-10-919-654-63	Sequence 63, Appli
41	576	28.8	232	6 US-10-919-654-64	Sequence 64, Appli
42	576	28.8	232	6 US-10-919-654-65	Sequence 65, Appli
43	576	28.8	232	6 US-10-919-654-69	Sequence 69, Appli
44	576	28.8	232	6 US-10-919-654-70	Sequence 70, Appli
45	576	28.8	232	6 US-10-919-654-71	Sequence 71, Appli

ALIGNMENTS

RESULT 1
US-10-100-683-8305
; Sequence 8305, Application US/10100683
; GENERAL INFORMATION:
; APPLICANT: Rosen, et al.
; TITLE OF INVENTION: Human Secreted Proteins
; FILE REFERENCE: PS900
; CURRENT APPLICATION NUMBER: US/10/100,683
; CURRENT FILING DATE: 2002-03-19
; PRIOR APPLICATION NUMBER: US 60/040,162
; PRIOR FILING DATE: 1997-03-07
; PRIOR APPLICATION NUMBER: US 60/043,576
; PRIOR FILING DATE: 1997-04-11
; PRIOR APPLICATION NUMBER: US 60/047,601
; PRIOR FILING DATE: 1997-05-23
; PRIOR APPLICATION NUMBER: US 60/056,845
; PRIOR FILING DATE: 1997-08-22
; PRIOR APPLICATION NUMBER: US 60/043,580
; PRIOR FILING DATE: 1997-04-11
; PRIOR APPLICATION NUMBER: US 60/047,599
; PRIOR FILING DATE: 1997-05-23
; PRIOR APPLICATION NUMBER: US 60/056,664
; PRIOR FILING DATE: 1997-08-22
; PRIOR APPLICATION NUMBER: US 60/043,314
; PRIOR FILING DATE: 1997-04-11
; PRIOR APPLICATION NUMBER: US 60/047,632
; PRIOR FILING DATE: 1997-05-23
; PRIOR APPLICATION NUMBER: US 60/056,892
; PRIOR FILING DATE: 1997-08-22
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 13468
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 8305
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (84)
; OTHER INFORMATION: Xaa equals any amino acid
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (112)
; OTHER INFORMATION: Xaa equals any amino acid
US-10-100-683-8305

Query Match 99.5%; Score 1990; DB 6; Length 374;
Best Local Similarity 99.5%; Pred. No. 1.2e-171;
Matches 372; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 MRPCTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEAK 60
Db 1 MRPCTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEAK 60
Qy 61 EACRRDGGQLVSIIESEDEQKLIEXFIENLLPSDGFWIGLRRRREKQSNSTACQDLYAWT 120
Db 61 EACRRDGGQLVSIIESEDEQKLIEXFIENLLPSDGFWIGLRRRREKQSNSTACQDLYAWT 120
Qy 121 DGSISQFRNWWYVDEPSCGSEVVCVVMYHQPSPAPAGIGGPPYMFQWDDRCNNKNNFICKYSD 180
Db 121 DGSISQFRNWWYVDEPSCGSEVVCVVMYHQPSPAPAGIGGPPYMFQWDDRCNNKNNFICKYSD 180
Qy 181 EKPAVPSREAEGETELTPVLPEETOEDAKKTFKESREAAALNLAYILIPSIPLLLLLV 240
Db 181 EKPAVPSREAEGETELTPVLPEETOEDAKKTFKESREAAALNLAYILIPSIPLLLLLV 240
Qy 241 VTTVVCWWVICRKRKREQDPSTKKQHTIWPSPHQNSPDLEVYNVIRKQSEADLAETRP 300
Db 241 VTTVVCWWVICRKRKREQDPSTKKQHTIWPSPHQNSPDLEVYNVIRKQSEADLAETRP 300
Qy 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFTVNDIYEFSPDQGR 360
Db 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFTVNDIYEFSPDQGR 360
Qy 361 SKESGWVENEIYGY 374
Db 361 SKESGWVENEIYGY 374

RESULT 2

US-10-797-366-137
; Sequence 137, Application US/10797366
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/10/797,366
; CURRENT FILING DATE: 2004-03-09
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594

; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-797-366-137
Query Match 99.3%; Score 1986; DB 6; Length 382;
Best Local Similarity 97.9%; Pred. No. 2.9e-171;
Matches 374; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
Qy 1 MRPCTALQAVLLAVLLVGLRAATGRLLS-----GQPVCRGGTQPCYKVIYFHDTSR 52
Db 1 MRPCTALQAVLLAVLLVGLRAATGRLLSASDLLRGGQPVCRGGTQPCYKVIYFHDTSR 60
Qy 53 RLNFEEAKEACRRDGGQLVSIIESEDEQKLIEXFIENLLPSDGFWIGLRRRREKQSNSTA 112
Db 61 RLNFEEAKEACRRDGGQLVSIIESEDEQKLIEXFIENLLPSDGFWIGLRRRREKQSNSTA 120
Qy 113 CODLYAWTDGSIQFRNWWYVDEPSCGSEVVCVVMYHQPSPAPAGIGGPPYMFQWDDRCNMKN 172
Db 121 CODLYAWTDGSIQFRNWWYVDEPSCGSEVVCVVMYHQPSPAPAGIGGPPYMFQWDDRCNMKN 180
Qy 173 NFICKYSDEKPAVPSREAEGETELTPVLPEETOEDAKKTFKESREAAALNLAYILIPS 232
Db 181 NFICKYSDEKPAVPSREAEGETELTPVLPEETOEDAKKTFKESREAAALNLAYILIPS 240
Qy 233 IPLLLLLLVTTVVCWWVICRKRKREQDPSTKKQHTIWPSPHQNSPDLEVYNVIRKQSE 292
Db 241 IPLLLLLLVTTVVCWWVICRKRKREQDPSTKKQHTIWPSPHQNSPDLEVYNVIRKQSE 300
Qy 293 ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFTVNDIYE 352
Db 301 ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFTVNDIYE 360
Qy 353 FSPDQMGRSKESGWVENEIYGY 374
Db 361 FSPDQMGRSKESGWVENEIYGY 382

RESULT 3

US-10-771-187-137
; Sequence 137, Application US/10771187
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.


```
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 39780-1618P2C78C1
; CURRENT APPLICATION NUMBER: US/10/771,187
; CURRENT FILING DATE: 2004-02-02
; PRIOR APPLICATION NUMBER: 09/909,064
; PRIOR FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/US98/19437
; PRIOR FILING DATE: 1998-09-17
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: 60/088,026
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/066,770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/065,186
; PRIOR FILING DATE: 1997-11-12
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-771-187-137
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Query Match 99.3%; Score 1986; DB 6; Length 382;
Best Local Similarity 97.9%; Pred. No. 2.9e-171;
Matches 374; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

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QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLS-----GQPVCRGGTQRPCYKVIYFHDTSR 52
Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSASDLRLGGQPVCRGGTQRPCYKVIYFHDTSR 60

QY 53 RLNFEEAKEACRRDGGQOLVSIIESEDEQKLEKFIENLLPSDGFWIGLRRREEKQNSTA 112
Db 61 RLNFEEAKEACRRDGGQOLVSIIESEDEQKLEKFIENLLPSDGFWIGLRRREEKQNSTA 120

QY 113 QODLYAWTDGSIISQFRNWYVDEPSCGSEVCVVMYHQPAPAGIGGYPYMFQWNNDRCNMKN 172
Db 121 QODLYAWTDGSIISQFRNWYVDEPSCGSEVCVVMYHQPAPAGIGGYPYMFQWNNDRCNMKN 180

QY 173 NFICKYSDEKPAVPSREAEGETELTPVLPEETOEDAKKTFKESREAAALNLAYILIPS 232
Db 181 NFICKYSDEKPAVPSREAEGETELTPVLPEETOEDAKKTFKESREAAALNLAYILIPS 240

QY 233 IPLLLLLVVTVCVWVICRKRKREQDDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSE 292
Db 241 IPLLLLLVVTVCVWVICRKRKREQDDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSE 300

QY 293 ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYE 352
Db 301 ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYE 360

QY 353 FSPDQMGRSKESGWVENEIYGY 374
Db 361 FSPDQMGRSKESGWVENEIYGY 382
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RESULT 4
PCT-US04-09202-861
; Sequence 861, Application PC/TUS0409202
; GENERAL INFORMATION:

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; APPLICANT: Zhou, Ping
; APPLICANT: Tang, Y. Tom
; APPLICANT: Hu, Tianhua
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Wang, Zhi Wei
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: Novel Nucleic Acids and Polypeptides
; FILE REFERENCE: 824CIP/PCT
; CURRENT APPLICATION NUMBER: PCT/US04/09202
; CURRENT FILING DATE: 2004-04-06
; PRIOR APPLICATION NUMBER: US 60/458,824
; PRIOR FILING DATE: 2003-03-28
; PRIOR APPLICATION NUMBER: US 10/296,115
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 10/275,027
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: US 10/276,774
; PRIOR FILING DATE: 2001-02-05
; PRIOR APPLICATION NUMBER: US 10/220,366
; PRIOR FILING DATE: 2001-02-26
; PRIOR APPLICATION NUMBER: US 10/221,279
; PRIOR FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 10/450,763
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: US 10/276,817
; PRIOR FILING DATE: 2001-05-16
; PRIOR APPLICATION NUMBER: US 10/461,673
; PRIOR FILING DATE: 2003-06-13
; PRIOR APPLICATION NUMBER: US 10/363,616
; PRIOR FILING DATE: 2001-08-31
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1150
; SOFTWARE: pt_FL_genes Version 6.0
; SEQ ID NO 861
; LENGTH: 387
; TYPE: PRT
; ORGANISM: Homo sapiens
PCT-US04-09202-861
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Query Match 99.1%; Score 1982; DB 1; Length 387;
Best Local Similarity 98.9%; Pred. No. 6.9e-171;
Matches 370; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

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QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSQPVCRRGGTQRPCYKVIYFHDTSRRLNFEEAK 60
Db 14 MPPGTALKAVLLAVLLVGLQTATGRLLSQPVCRRGGTQRPCYKVIYFHDTSRRLNFEEAK 73

QY 61 EACRRDGGQOLVSIIESEDEQKLEKFIENLLPSDGFWIGLRRREEKQNSTACODLYAWT 120
Db 74 EACRRDGGQOLVSIIESEDEQKLEKFIENLLPSDGFWIGLRRREEKQNSTACODLYAWT 133

QY 121 DGSISQFRNWYVDEPSCGSEVCVVMYHQPAPAGIGGYPYMFQWNNDRCNMKNFICKYSD 180
Db 134 DGSISQFRNWYVDEPSCGSEVCVVMYHQPAPAGIGGYPYMFQWNNDRCNMKNFICKYSD 193

QY 181 EKPAVPSREAEGETELTPVLPEETOEDAKKTFKESREAAALNLAYILIPSIPLLLLLV 240
Db 194 EKPAVPSREAEGETELTPVLPEETOEDAKKTFKESREAAALNLAYILIPSIPLLLLLV 253

QY 241 VTTVCVWVICRKRKREQDDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSEADLAETRP 300
Db 254 VTTVCVWVICRKRKREQDDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSEADLAETRP 313

QY 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYFSPDQMGR 360
Db 314 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYFSPDQMGR 373

QY 361 SKESGWVENEIYGY 374
Db 374 SKESGWVENEIYGY 387
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RESULT 5

PCT-US04-09202-1040
; Sequence 1040, Application PC/TUS0409202
; GENERAL INFORMATION:
; APPLICANT: Zhou, Y. Tom
; APPLICANT: Tang, Y. Tom
; APPLICANT: Hu, Tianhua
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Wang, Zhi Wei
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: Novel Nucleic Acids and Polypeptides
; FILE REFERENCE: 824CIP/PCT
; CURRENT APPLICATION NUMBER: PCT/US04/09202
; CURRENT FILING DATE: 2004-04-06
; PRIOR APPLICATION NUMBER: US 60/458,824
; PRIOR FILING DATE: 2003-03-28
; PRIOR APPLICATION NUMBER: US 10/296,115
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 10/275,027
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: US 10/276,774
; PRIOR FILING DATE: 2001-02-26
; PRIOR APPLICATION NUMBER: US 10/221,279
; PRIOR FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 10/450,763
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: US 10/276,817
; PRIOR FILING DATE: 2001-05-16
; PRIOR APPLICATION NUMBER: US 10/461,673
; PRIOR FILING DATE: 2003-06-13
; PRIOR APPLICATION NUMBER: US 10/363,616
; PRIOR FILING DATE: 2001-08-31
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1150
; SOFTWARE: pt_FL_genes Version 6.0
; SEQ ID NO 1040
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
PCT-US04-09202-1040

Query Match 99.0%; Score 1979; DB 1; Length 374;
Best Local Similarity 98.7%; Pred. No. 1.2e-170;
Matches 369; Conservative 2; Mismatches 3; Indels 0; Gaps 0;
Qy 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGTRPCYKVIYFHDTSRRLNFEAK 60
Db 1 MNPGETALEGVLLAVLLVGLQTATGRLLSGQPVCRGTRPCYKVIYFHDTSRRLNFEAK 60
Qy 61 EACRRDGGQLVSI ESEDEQKLI EKFIEIENLLPSDGDGFWIGLRRRREEKQSNSTACQDLYAWT 120
Db 61 EACRRDGGQLVSI ESEDEQKLI EKFIEIENLLPSDGDGFWIGLRRRREEKQSNSTACQDLYAWT 120
Qy 121 DGSISQFRNWWYVDEPSCGSEVCVVMYHQPSPAPAGIGPYMFQWDDRCNMKNFICKYSD 180
Db 121 DGSISQFRNWWYVDEPSCGSEVCVVMYHQPSPAPAGIGPYMFQWDDRCNMKNFICKYSD 180
Qy 181 EKPAVPSREAEGEETELTTPVLPPEETQEEADAKTKPKESREAAALNAYILIPSIPLLLLLV 240
Db 181 EKPAVPSREAEGEETELTTPVLPPEETQEEADAKTKPKESREAAALNAYILIPSIPLLLLLV 240
Qy 241 VTTVVCWWVICRKRKRREOPDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSEADLAETRP 300
Db 241 VTTVVCWWVICRKRKRREOPDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSEADLAETRP 300
Qy 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYFSPDQMGR 360
Db 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYFSPDQMGR 360
Qy 361 SKESGWVENEIYGY 374
Db 361 SKESGWVENEIYGY 374

RESULT 6
PCT-US04-09202-363
; Sequence 363, Application PC/TUS0409202
; GENERAL INFORMATION:
; APPLICANT: Zhou, Y. Tom
; APPLICANT: Tang, Y. Tom
; APPLICANT: Hu, Tianhua
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Wang, Zhi Wei
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: Novel Nucleic Acids and Polypeptides
; FILE REFERENCE: 824CIP/PCT
; CURRENT APPLICATION NUMBER: PCT/US04/09202
; CURRENT FILING DATE: 2004-04-06
; PRIOR APPLICATION NUMBER: US 60/458,824
; PRIOR FILING DATE: 2003-03-28
; PRIOR APPLICATION NUMBER: US 10/296,115
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 10/275,027
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: US 10/276,774
; PRIOR FILING DATE: 2001-02-05
; PRIOR APPLICATION NUMBER: US 10/220,366
; PRIOR FILING DATE: 2001-02-26
; PRIOR APPLICATION NUMBER: US 10/221,279
; PRIOR FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 10/450,763
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: US 10/276,817
; PRIOR FILING DATE: 2001-05-16
; PRIOR APPLICATION NUMBER: US 10/461,673
; PRIOR FILING DATE: 2003-06-13
; PRIOR APPLICATION NUMBER: US 10/363,616
; PRIOR FILING DATE: 2001-08-31
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1150
; SOFTWARE: pt_FL_genes Version 6.0
; SEQ ID NO 363
; LENGTH: 356
; TYPE: PRT
; ORGANISM: Homo sapiens
PCT-US04-09202-363

Query Match 90.2%; Score 1805; DB 1; Length 356;
Best Local Similarity 97.1%; Pred. No. 6.4e-155;
Matches 334; Conservative 2; Mismatches 8; Indels 0; Gaps 0;
Qy 31 PVRGGTQRCYKVIYFHDTSRRLNFEAKEACRRDGGQLVSI ESEDEQKLI EKFIEIENLL 90
Db 13 PVRGGTQRCYKAIYFHDTSRRLNFEEAHKCRDGGQLVTPARPEDEQKLI EKFIEIENLL 72
Qy 91 PSDGDFWIGLRRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEVCVVMYHQP 150
Db 73 PSDGDFWIGLRRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEVCVVMYHQP 132
Qy 151 APAGIGPYMFQWDDRCNMKNFICKYSDKPAVPSREAEGEETELTTPVLPPEETQEE 210
Db 133 APAGIGPYMFQWDDRCNMKNFICKYSDKPAVPSREAEGEETELTTPVLPPEETQEE 192
Qy 211 AKKTFKESREAAALNAYILIPSIPLLLLLVTTVVCWWVICRKRKRREOPDPSTKKQHTI 270
Db 193 AKKTFKESREAAALNAYILIPSIPLLLLLVTTVVCWWVICRKRKRREOPDPSTKKQHTI 252
Qy 271 PSFHQGNSPDLEVYNVIRKQSEADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAVNP 330
Db 253 PSFHQGNSPDLEVYNVIRKQSEADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAVNP 312
Qy 331 SESGFVTLVSVESGFVTNDIYFSPDQMGRSKESGWVENEIYGY 374
Db 313 SESGFVTLVSVESGFVTNDIYFSPDQMGRSKESGWVENEIYGY 356


```

; LENGTH: 260
; TYPE: PRT
; ORGANISM: Hamster
US-10-897-911-3

Query Match      59.9%; Score 1198.5; DB 6; Length 260;
Best Local Similarity 84.2%; Pred. No. 3.3e-100;
Matches 219; Conservative 17; Mismatches 23; Indels 1; Gaps 1;

QY 25 RLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEAEAKACRRDGGQLVSIETEDQKLIK 84
Db 1 RLLSGQLVCRGGTTRPCYKVIYFHDFAQRLNFEAEAKACRRDGGQLVSIETEDQRLIK 60

QY 85 FIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSGISQFRNWWYVDEPSCGSEVCVV 144
Db 61 FIENLLASDGFWIGLRRLEVQVNTACQDLYAWTDGSGTSQFRNWWYVDEPSCGSEVCVV 120

QY 145 MYHQPSAPAGIGGPFQWNDRCNMKNFNICKYSDEKPA-VPSREAEGETELTTPVLP 203
Db 121 MYHQPSAPPGIGGPFQWNDRCNMKNFNICKYADEKPSSTTPSIRPGGEATEPPTPVL 180

QY 204 BETQEDAKTKFKESREAAALNLAYILIPSIPLLLLLVVTVVVCWVWICKRKREQDPDPST 263
Db 181 BETQKEDTKETFKESREAAALNLAYILIPSIPFLLLLVVTSAAACWVWICRRRKQEQDPDPTT 240

QY 264 KQHTIWPSPHQGNPDLEV 283
Db 241 KQHTIWPSPHQGNPDLEV 260

RESULT 10
US-10-898-615-3
; Sequence 3, Application US/10898615
; GENERAL INFORMATION:
; APPLICANT: Daniel E.H. Afar
; APPLICANT: Rene S. Hubert
; APPLICANT: Aya Jakobovits
; APPLICANT: Arthur B. Raitano
; TITLE OF INVENTION: C-TYPE LECTIN TRANSMEMBRANE ANTIGEN EXPRESSED IN HUMAN PROSTATE C
; TITLE OF INVENTION: USES THEREOF
; FILE REFERENCE: 51158-2002.11
; CURRENT APPLICATION NUMBER: US/10/898,615
; CURRENT FILING DATE: 2004-07-23
; PRIOR APPLICATION NUMBER: 10/460,512
; PRIOR FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: 09/638,203
; PRIOR FILING DATE: 2000-08-11
; PRIOR APPLICATION NUMBER: 60/148,935
; PRIOR FILING DATE: 1999-08-12
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 260
; TYPE: PRT
; ORGANISM: Hamster
US-10-898-615-3

Query Match      59.9%; Score 1198.5; DB 6; Length 260;
Best Local Similarity 84.2%; Pred. No. 3.3e-100;
Matches 219; Conservative 17; Mismatches 23; Indels 1; Gaps 1;

QY 25 RLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEAEAKACRRDGGQLVSIETEDQKLIK 84
Db 1 RLLSGQLVCRGGTTRPCYKVIYFHDFAQRLNFEAEAKACRRDGGQLVSIETEDQRLIK 60

QY 85 FIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSGISQFRNWWYVDEPSCGSEVCVV 144
Db 61 FIENLLASDGFWIGLRRLEVQVNTACQDLYAWTDGSGTSQFRNWWYVDEPSCGSEVCVV 120

QY 145 MYHQPSAPAGIGGPFQWNDRCNMKNFNICKYSDEKPA-VPSREAEGETELTTPVLP 203
Db 121 MYHQPSAPPGIGGPFQWNDRCNMKNFNICKYADEKPSSTTPSIRPGGEATEPPTPVL 180
```

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QY 204 BETQEDAKTKFKESREAAALNLAYILIPSIPLLLLLVVTVVVCWVWICKRKREQDPDPST 263
Db 181 BETQKEDTKETFKESREAAALNLAYILIPSIPFLLLLVVTSAAACWVWICRRRKQEQDPDPTT 240

QY 264 KQHTIWPSPHQGNPDLEV 283
Db 241 KQHTIWPSPHQGNPDLEV 260

RESULT 11
US-10-152-372-540
; Sequence 540, Application US/10152372
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3330R1C394
; CURRENT APPLICATION NUMBER: US/10/152,372
; CURRENT FILING DATE: 2002-05-21
; PRIOR APPLICATION NUMBER: 60/049911
; PRIOR FILING DATE: 1997-06-18
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; PRIOR APPLICATION NUMBER: 60/059588
; PRIOR FILING DATE: 1997-09-19
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 540
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-152-372-540

Query Match      32.2%; Score 645; DB 6; Length 273;
Best Local Similarity 48.4%; Pred. No. 4.4e-50;
Matches 137; Conservative 40; Mismatches 80; Indels 26; Gaps 9;

QY 10 VLLAVLLVGLRAATGRLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEAEAKACRRDGGQ 69
Db 8 LLGAALLCGHGAFCRRVWSGQKVCFAFKHPCYKWAYFHELSSRVSPQEARLACESEGGV 67

QY 70 LVSISEDEQKLIKFIENLLP-----SDGDFWIGLRRREKQSNSTACQDLYAWTDGSI 124
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Db 8 LLGAALLCGHGAFCRRVVSQKVCFAFKHPCYKMAFYHELSSRVSFQEARLACESEGGV 67
Qy 70 LVSI ESEDEQK LIEKFIENLLP-----SDGDFWIGLRRREKQSNSTACQDLYAWTDGSI 124
Db 68 LLSLENEAEQK LIESMLQNLTKPGTGISDGDGFWIGLWRNGDGT-SGACPDLYQWSDGGSN 126
Qy 125 SQFRNWWYVDEPSCGSEVCVVMYHOPSAFAGICGYPYMFQWDDRCNMKNPFICKYSDE-KP 183
Db 127 SQYRNWYTDEPSCGSEKCVVMYHQTANPGLGPGYLYQWDDRCNMKNHYICKYEPEINP 186
Qy 184 AVPSRAEAGEETELTPVLPPEETQEDAKKTFKESREAAL--NLAYILIPSIPLLLLLVV 241
Db 187 TAPV-----EKP YLTNQ--PGDTHQNVV-----VTEAGIIPNLIYVVIPTIPLLLLLLV 233
Qy 242 TTVVCVWVICRKRK-REQDDPSTKKQHTIWPSPHQGNSPDLEV 283
Db 234 AFGTCCFQMLHKSGRTKTSPN---QSTLWISKSTRKESGMEV 273

RESULT 14

US-10-143-117-540
; Sequence 540, Application US/10143117
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3330R1C221
; CURRENT APPLICATION NUMBER: US/10/143,117
; CURRENT FILING DATE: 2002-05-09
; PRIOR APPLICATION NUMBER: 60/049911
; PRIOR FILING DATE: 1997-06-18
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; PRIOR APPLICATION NUMBER: 60/059588
; PRIOR FILING DATE: 1997-09-19
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 540
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-143-117-540

Query Match 32.2%; Score 645; DB 6; Length 273;
Best Local Similarity 48.4%; Pred. No. 4.4e-50;
Matches 137; Conservative 40; Mismatches 80; Indels 26; Gaps 9;
Qy 10 VLLAVLLVGLRAATGRLLSGQPVCRGGTQPCYKVIYFHDTSRRRLNFEFAKEACRRDGGQ 69
Db 8 LLGAALLCGHGAFCRRVVSQKVCFAFKHPCYKMAFYHELSSRVSFQEARLACESEGGV 67
Qy 70 LVSI ESEDEQK LIEKFIENLLP-----SDGDFWIGLRRREKQSNSTACQDLYAWTDGSI 124
Db 68 LLSLENEAEQK LIESMLQNLTKPGTGISDGDGFWIGLWRNGDGT-SGACPDLYQWSDGGSN 126
Qy 125 SQFRNWWYVDEPSCGSEVCVVMYHOPSAFAGICGYPYMFQWDDRCNMKNPFICKYSDE-KP 183
Db 127 SQYRNWYTDEPSCGSEKCVVMYHQTANPGLGPGYLYQWDDRCNMKNHYICKYEPEINP 186
Qy 184 AVPSRAEAGEETELTPVLPPEETQEDAKKTFKESREAAL--NLAYILIPSIPLLLLLVV 241
Db 187 TAPV-----EKP YLTNQ--PGDTHQNVV-----VTEAGIIPNLIYVVIPTIPLLLLLLV 233
Qy 242 TTVVCVWVICRKRK-REQDDPSTKKQHTIWPSPHQGNSPDLEV 283
Db 234 AFGTCCFQMLHKSGRTKTSPN---QSTLWISKSTRKESGMEV 273

RESULT 15

US-10-127-823A-540
; Sequence 540, Application US/10127823A
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: 39780-3330R1C189
; CURRENT APPLICATION NUMBER: US/10/127,823A
; CURRENT FILING DATE: 2002-04-22
; PRIOR APPLICATION NUMBER: US 10/028,072
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: US 60/170,262
; PRIOR FILING DATE: 1999-12-09
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 540
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-127-823A-540

Query Match 32.2%; Score 645; DB 6; Length 273;
Best Local Similarity 48.4%; Pred. No. 4.4e-50;
Matches 137; Conservative 40; Mismatches 80; Indels 26; Gaps 9;
Qy 10 VLLAVLLVGLRAATGRLLSGQPVCRGGTQPCYKVIYFHDTSRRRLNFEFAKEACRRDGGQ 69
Db 8 LLGAALLCGHGAFCRRVVSQKVCFAFKHPCYKMAFYHELSSRVSFQEARLACESEGGV 67
Qy 70 LVSI ESEDEQK LIEKFIENLLP-----SDGDFWIGLRRREKQSNSTACQDLYAWTDGSI 124

Db	68	LLSLENEAEQKLIESMLQNLTKPGTGISDGDFFWIGLWRNGDGT-SCACPDLYQWSDGSN	126
QY	125	SQFRNWYVDEPSCGSEVCVWMYHQPSAPAGIGGPPYMFQWDDRCNMKNNFICKYSDE-KP	183
Db	127	SQYRNWYTDEPSCGSEKCVWMYHQPTANPGLGGPYLYQWDDRCNMKNHYICKYEPEINP	186
QY	184	AVPSREAEGETELTTPVLPEETQEEEDAKTFKESREAAAL--NLAYILIPSIPLLLLLVV	241
Db	187	TAPV-----EKPYLTNQ--PGDTHQNVV-----VTEAGIIPNLIYVVIPTIPLLLLLLV	233
QY	242	TTVVCWVWICRKRK-REQDPSTKKQHTIWPSPHQGNSPDLEV	283
Db	234	AFGTCCCFQMLHKSGRTKTSPN---QSTLWISKSTRKESGMEV	273

Search completed: September 9, 2004, 22:31:52
Job time : 64 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 9, 2004, 22:20:01 ; Search time 20 Seconds
(without alignments)
1798.782 Million cell updates/sec

Title: US-09-887-855-2
Perfect score: 2000
Sequence: 1 MRPGTALQAVLLAVLLVGLR.....PDQMGRSKESGWVENEIYGY 374

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283366 seqs, 96191526 residues

Total number of hits satisfying chosen parameters: 283366

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : PIR 78:*
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	183	9.2	1456	1 A36563	mannose receptor p
2	178.5	8.9	1455	1 A48925	mannose receptor p
3	177	8.8	1268	2 S52781	neurocan - mouse
4	174.5	8.7	1643	2 T14274	versican precursor
5	174.5	8.7	3381	2 T42389	versican precursor
6	174	8.7	1257	2 S28764	neurocan precursor
7	174	8.7	2397	1 A55535	versican precursor
8	174	8.7	2409	1 A60979	versican precursor
9	171	8.6	3562	2 A47171	chondroitin sulfat
10	170.5	8.5	1479	2 T42710	mannose receptor,
11	158.5	7.9	1340	2 A39808	proteoglycan core
12	158.5	7.9	2327	2 T42630	aggrecan - bovine
13	158.5	7.9	2415	1 A39086	aggrecan precursor
14	156	7.8	162	1 LNRCL	lectin BRA3-1 prec
15	154.5	7.7	612	2 B42755	E-selectin precurs
16	153.5	7.7	2124	2 A28452	proteoglycan core
17	152	7.6	912	2 A54423	brevican precursor
18	151	7.5	162	1 LNRCL	lectin BRA3-2 prec
19	150.5	7.5	459	2 T24425	hypothetical prote
20	150	7.5	330	2 T46256	brevican - human (
21	149	7.4	321	1 LNHUER	IGE Fc receptor II
22	148.5	7.4	152	2 JC4690	coagulation factor
23	148.5	7.4	404	2 A46274	HIV gp120-binding
24	148.5	7.4	2132	1 A55182	aggrecan precursor
25	148	7.4	253	2 E89130	protein F52E1.2 [i
26	147	7.3	883	2 S57653	brevican precursor
27	146	7.3	2109	1 I50421	aggrecan precursor
28	145.5	7.3	742	2 JC7595	scavenger receptor
29	145	7.2	883	2 S49126	brevican precursor

lectin - barnacle
L-selectin precurs
coagulation factor
L-selectin precurs
hypothetical prote
hypothetical prote
bitiscetin alpha c
phospholipase-A(2)
reg I, regeneratin
IGE Fc receptor, l
L-selectin precurs
pulmonary surfacta
pulmonary surfacta
pulmonary surfacta
lectin precursor -
lectin - Iberian r

ALIGNMENTS

RESULT 1

A36563
mannose receptor precursor - human
C/Species: Homo sapiens (man)
C/Date: 10-Sep-1999 #sequence revision 10-Sep-1999 #text change 10-Sep-1999
C/Accession: A36563; A60926; A44255; B44255; C44255; D44255; E44255; F44255; G44255; H44255; I44255; J44255; K44255; L44255; M44255; N44255; O44255; P44255; Q44255; R44255; S44255; T44255; U44255; V44255; W44255; X44255; Y44255; Z44255; AA44255; AB44255; AC44255; AD44255; AE44255; AF44255; AG44255; AH44255; AI44255; AJ44255; AK44255; AL44255; AM44255; AN44255; AO44255; AP44255; AQ44255; AR44255; AS44255; AT44255; AU44255; AV44255; AW44255; AX44255; AY44255; AZ44255; BA44255; BB44255; BC44255; BD44255; BE44255; BF44255; BG44255; BH44255; BI44255; BJ44255; BK44255; BL44255; BM44255; BN44255; BO44255; BP44255; BQ44255; BR44255; BS44255; BT44255; BU44255; BV44255; BW44255; BX44255; BY44255; BZ44255; CA44255; CB44255; CC44255; CD44255; CE44255; CF44255; CG44255; CH44255; CI44255; CJ44255; CK44255; CL44255; CM44255; CN44255; CO44255; CP44255; CQ44255; CR44255; CS44255; CT44255; CU44255; CV44255; CW44255; CX44255; CY44255; CZ44255; DA44255; DB44255; DC44255; DD44255; DE44255; DF44255; DG44255; 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Db 807 YKDYQYFSKEKETMDNARAFCKRNFGLVSIQSESEKKFLWKYV-NRNDASAYFIGLL 865
QY 102 RREEKQSNSTACQDLYAWTDGSIQFRNYYVDEPSCGS--EVCVVMYHQPSAPAGIGGPY 159
Db 866 ISLDKK-----FAWMDGSKVDYVSWATGEPNFANEDENCVTMY-----SNSGF---- 908
QY 160 MFQWNDRCNMKNFICKYSDEK----PAVPSREAAGEETEELTTPVLPPEETQE----- 208
Db 909 ---WNDINGYPNAFICQRHNSSINATTVM-----TPSPVPSGCKEGWNFYSN 954
QY 209 -----EDAKTFKESREAAALNLAYILI 230
Db 955 KCFKIFGFMEERKNWQEARAKACIGFGGNLV 985
RESULT 2
A48925
mannose receptor precursor, macrophage - mouse
C;Species: Mus musculus (house mouse)
C;Date: 10-Sep-1999 #sequence revision 10-Sep-1999 #text_change 10-Sep-1999
C;Accession: A48925; S21320; PC2245
R;Harris, N.; Super, M.; Rits, M.; Chang, G.; Ezekowitz, R.A.
Blood 80, 2363-2373, 1992
A;Title: Characterization of the murine macrophage mannose receptor: demonstration that
A;Reference number: A48925; MUID:93043353; PMID:1421407
A;Accession: A48925
A;Status: not compared with conceptual translation
A;Molecule type: mRNA
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A;Experimental source: peritoneal macrophage
A;Note: sequence extracted from NCBI backbone (NCBIP:118733)
R;Harris, N.; Super, M.; Rits, M.; Chang, G.; Ezekowitz, R.B.
submitted to the EMBL Data Library, April 1992
A;Description: Characterization of the murine macrophage mannose receptor: Demonstration
on.
A;Reference number: S21320
A;Accession: S21320
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-302, 'W', 303-1117, 'B', 1119-1455 <HA2>
A;Cross-references: EMBL:Z11974; NID:G52997; PIDN:CAA78028.1; PID:G52998
R;Harris, N.; Peters, L.L.; Eicher, E.M.; Rits, M.; Raspberry, D.; Eichbaum, Q.G.; Super
Biochem. Biophys. Res. Commun. 198, 682-692, 1994
A;Title: The exon-intron structure and chromosomal localization of the mouse macrophage
A;Reference number: PC2245; MUID:94128116; PMID:8297379
A;Accession: PC2245
A;Molecule type: mRNA
A;Residues: 35-105 <HA3>
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A;Gene: Mrcl
A;Map position: 2
C;Superfamily: phospholipase A2 receptor; C-type lectin homology; fibronectin type II re
C;Keywords: membrane protein; receptor
F;168-209/Domain: fibronectin type II repeat homology <2F9>
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F;943-1077/Domain: C-type lectin homology <LCH2>
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Best Local Similarity 25.9%; Pred. No. 2.7e-06;
Matches 53; Conservative 33; Mismatches 66; Indels 53; Gaps 8;
QY 42 YKVIYFHDTSRRLNFEAEAKERRDGGQLVSIIESEDEQKLEKFIENLLPSDGFWIGLR 101
Db 806 YKDYQYFSKEKETMDNARRFCKNFGDLATIKSESEKKFLWKYI-NKNGGQSPYFIGML 864
QY 102 RREEKQSNSTACQDLYAWTDGSIQFRNYYVDEPSCGS--EVCVVMYHQPSAPAGIGGPY 159
Db 865 ISMDKK-----FIWMDGSKVDVFAWATGEPNFANDDENCVTMY-----TNSGF---- 907
QY 160 MFQWNDRCNMKNPFICK--YSDEKPAVPSREAAGEETEELTTPVLPPEETQE----- 208
Db 908 ---WNDINGYPNPNPICQRHNSSINATMP-----TTPTTPGCKEGWHLYKNK 953

QY 209 -----EDAKTFKESREAAALNL 225
Db 954 CFKIFGFANEKKSWQDARQACKGL 978
RESULT 3
S52781
neurocan - mouse
C;Species: Mus musculus (house mouse)
C;Date: 19-May-1995 #sequence revision 21-Jul-1995 #text_change 04-Feb-2000
C;Accession: S52781
R;Rauch, U.; Forsberg, N.; Kulbe, G.; Arnold-Ammer, I.; Faessler, R.
submitted to the EMBL Data Library, February 1995
A;Description: Amino acid sequence of mouse neurocan and brevican and their different ex
A;Reference number: S52781
A;Accession: S52781
A;Status: preliminary
A;Molecule type: mRNA
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F;176-253/Domain: link protein repeat homology <LNK1>
F;274-355/Domain: link protein repeat homology <LNK2>
F;964-995/Domain: EGF homology <EGF>
F;1040-1160/Domain: C-type lectin homology <LCH>
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Matches 45; Conservative 17; Mismatches 49; Indels 32; Gaps 6;
QY 38 QRPCYKVIYFHDTSRRLNFEAEAKERRDGGQLVSIIESEDEQKLEKFIENLLPSDGF 97
Db 1048 QGHCYR--YF---AHRRAWEDAERDCRRRAGHLTSHVSPSEHKFINSP-----GHENSW 1096
QY 98 IGLRRREEKQSNSTACQDLYAWTDGSIQFRNYYVDEPS---CGSEVCVVMYHQPSAPAG 154
Db 1097 IGLNDRTVERD-----FQWTDNTGLQYENWREKQPDNFFAGGEDCVVMVAHESG--- 1145
QY 155 IGGPYMFQWNDRCNMKNFICK 177
Db 1146 -----RWNDVPCVNYNLPYVCK 1161
RESULT 4
T14274
versican precursor, splice form V2 - bovine
C;Species: Bos primigenius taurus (cattle)
C;Date: 20-Sep-1999 #sequence revision 20-Sep-1999 #text_change 05-May-2000
C;Accession: T14274
R;Schmalfeldt, M.; Dours-Zimmermann, M.T.; Winterhalter, K.H.; Zimmermann, D.R.
J. Biol. Chem. 273, 15758-15764, 1998
A;Title: Versican V2 is a major extracellular matrix component of the mature bovine brain
A;Reference number: Z17954; MUID:98288320; PMID:9624174
A;Accession: T14274
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
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A;Experimental source: brain
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Best Local Similarity 25.5%; Pred. No. 6.8e-06;
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QY 38 QRPCYKVIYFHDTSRRLNFEAEAKERRDGGQLVSIIESEDEQKLEKFIENLLPSDGF 96
Db 1424 QGQCYK--YF---AHRRTWDAARECRQLQGAHLTSLSHSEQMFYNRV-----GHDYQ 1471

QY 97 WIGLRRREEKQSNSTACQDLYAWTDGSIQFRNYYVDEP-----SCGSEVCVVMYHQPSAP 152
Db 1472 WIGL-----NDKMFHDFRWTGDTLQYENWRPNQDPSFFSTGDCVVIWHENG-- 1521
QY 153 AGIGGPFMFQWDDRCNMKNFICKYS-----DEKPAVPSREAEGE----- 193
Db 1522 -----QWNDVPCNYHLTYTCKGTGTVACQPPVVENAKTFGKMKPRYEINSLIRYHC 1572
QY 194 -----ETELTT-----PVL-----PEETQEEADAKTFKESREAAALN 224
Db 1573 KDGFQIRHLPTIRCLNGRWAMPKITCLNPSAYQRTYSKKYFKNSSSAKDN 1623

RESULT 5
T42389
versican precursor, splice form V0 - bovine
N;Alternate names: chondroitin sulfate proteoglycan
C;Species: Bos primigenius taurus (cattle)
C;Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 05-May-2000
C;Accession: T42389
R;Schmalfeldt, M.; Dours-Zimmermann, M.T.; Winterhalter, K.H.; Zimmermann, D.R.
J. Biol. Chem. 273, 15758-15764, 1998
A;Title: Versican V2 is a major extracellular matrix component of the mature bovine brain
A;Reference number: Z17954; MUID:98288320; PMID:9624174
A;Accession: T42389
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: mRNA
A;Residues: 1-3381 <SCH>
A;Cross-references: EMBL:AF060456; NID:G3253299; PID:G3253300; PIDN:AAC24358.1
C;Superfamily: chicken chondroitin sulfate proteoglycan PG-M core protein; C-type lectin
C;Keywords: chondroitin sulfate proteoglycan; extracellular matrix; glycoprotein
F;1-20/Domain: signal sequence #status predicted <SIG>
F;21-3381/Product: versican, splice form V0 #status predicted <MAT>
F;57,331,352,817,965,1017,1333,1393,1437,1463,1653,1974,2045,2074,2103,2263,2290,2356,26

Query Match 8.7%; Score 174.5; DB 2; Length 3381;
Best Local Similarity 25.5%; Pred. No. 1.7e-05;
Matches 59; Conservative 26; Mismatches 71; Indels 75; Gaps 11;

QY 38 QRPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSIETSEDEQKLEKFIENLLPSDGDGF 96
Db 3162 QGCQYK--YF---AHRRTWDAARECRQLQGAHLTSLSHEEQMFVNRV-----GHDIQ 3209

QY 97 WIGLRRREEKQSNSTACQDLYAWTDGSIQFRNYYVDEP-----SCGSEVCVVMYHQPSAP 152
Db 3210 WIGL-----NDKMFHDFRWTGDTLQYENWRPNQDPSFFSTGDCVVIWHENG-- 3259

QY 153 AGIGGPFMFQWDDRCNMKNFICKYS-----DEKPAVPSREAEGE----- 193
Db 3260 -----QWNDVPCNYHLTYTCKGTGTVACQPPVVENAKTFGKMKPRYEINSLIRYHC 3310

QY 194 -----ETELTT-----PVL-----PEETQEEADAKTFKESREAAALN 224
Db 3311 KDGFQIRHLPTIRCLNGRWAMPKITCLNPSAYQRTYSKKYFKNSSSAKDN 3361

RESULT 6
S28764
neurocan precursor - rat
C;Species: Rattus norvegicus (Norway rat)
C;Date: 22-Nov-1993 #sequence_revision 01-Sep-1995 #text_change 04-Feb-2000
C;Accession: S28764
R;Rauch, U.; Karthikeyan, L.; Maurel, P.; Margolis, R.U.; Margolis, R.K.
J. Biol. Chem. 267, 19536-19547, 1992
A;Title: Cloning and primary structure of neurocan, a developmentally regulated, aggrega
A;Reference number: S28764; MUID:92406907; PMID:1326557
A;Accession: S28764
A;Molecule type: mRNA
A;Residues: 1-1257 <RAU>
A;Cross-references: EMBL:M97161; NID:G205649; PIDN:AAC37679.1; PID:G205650
C;Superfamily: aggrecan; C-type lectin homology; complement factor H repeat homology; EG
C;Keywords: chondroitin sulfate proteoglycan; glycoprotein

F;1-22/Domain: signal sequence #status predicted <SIG>
F;23-1257/Product: neurocan #status predicted <MAT>
F;176-253/Domain: link protein repeat homology <LNK1>
F;274-355/Domain: link protein repeat homology <LNK2>
F;364-366/Region: cell attachment (R-G-D) motif
F;953-984/Domain: EGF homology <EGF>
F;1029-1149/Domain: C-type lectin homology <LCH>
F;1156-1212/Domain: complement factor H repeat homology <FHD>
F;121,339,737,967,1164/Binding site: carbohydrate (Asn) (covalent) #status predicted
F;372,410/Binding site: chondroitin sulfate (Ser) (covalent) #status predicted
F;944/Binding site: chondroitin sulfate (Ser) (covalent) #status experimental

Query Match 8.7%; Score 174; DB 2; Length 1257;
Best Local Similarity 30.8%; Pred. No. 5.4e-06;
Matches 44; Conservative 18; Mismatches 49; Indels 32; Gaps 6;

QY 38 QRPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSIETSEDEQKLEKFIENLLPSDGDGF 97
Db 1037 QGHCYR--YF---AHRRAWEDAERDCRRRAGHLTSLVSHPEEHKFINSF-----GHENSW 1085

QY 98 IGLRRREEKQSNSTACQDLYAWTDGSIQFRNYYVDEPS---CGSEVCVVMYHQPSAPAG 154
Db 1086 IGLNDRTVRD-----FQWTDNTGLQYENWRKQPDNFFAGGEDCVVMVAHENG--- 1134

QY 155 IGGPYMFQWDDRCNMKNFICK 177
Db 1135 -----RWNDVPCNYNLPIYVCK 1150

RESULT 7
A55535
versican precursor - mouse
N;Alternate names: chondroitin sulfate proteoglycan 2; chondroitin sulfate proteoglycan
versican
N;Contains: Glial hyaluronate-binding protein
C;Species: Mus musculus (house mouse)
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
C;Accession: A55535
R;Ito, K.; Shinomura, T.; Zako, M.; Ujita, M.; Kimata, K.
J. Biol. Chem. 270, 958-965, 1995
A;Title: Multiple forms of mouse PG-M, a large chondroitin sulfate proteoglycan generate
A;Reference number: A55535; MUID:95122551; PMID:7822336
A;Accession: A55535
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: mRNA
A;Residues: 1-2397 <RES>
A;Cross-references: GB:D16263; NID:G862460; PIDN:BAA03796.1; PID:G862461
C;Superfamily: versican; C-type lectin homology; complement factor H repeat homology; EG
F;1-20/Domain: signal sequence #status predicted <SIG>
F;21-1654/Domain: versican #status predicted <MAT>
F;167-244/Domain: link protein repeat homology <LNK1>
F;265-346/Domain: link protein repeat homology <LNK2>
F;2095-2126/Domain: EGF homology <EG1>
F;2133-2164/Domain: EGF homology <EG2>
F;2171-2291/Domain: C-type lectin homology <LCH>
F;2298-2354/Domain: complement factor H repeat homology <FHD>

Query Match 8.7%; Score 174; DB 1; Length 2397;
Best Local Similarity 28.5%; Pred. No. 1.2e-05;
Matches 47; Conservative 23; Mismatches 55; Indels 40; Gaps 8;

QY 38 QRPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSIETSEDEQKLEKFIENLLPSDGDGF 96
Db 2179 QGCQYK--YF---AHRRTWDAARECRQLQGAHLTSLSHEEQMFVNRV-----GHDIQ 2226

QY 97 WIGLRRREEKQSNSTACQDLYAWTDGSIQFRNYYVDEP---SCGSEVCVVMYHQPSAP 152
Db 2227 WIGL-----NDKMFHDFRWTGDSALQYENWRPNQDPSFFSAGEDCVVIWHENG-- 2276

QY 153 AGIGGPFMFQWDDRCNMKNFICKYS-----DEKPAVPSREAEGE 193
Db 2277 -----QWNDVPCNYHLTYTCKKGTVACQPPVVENAKTFGK 2312

C;Accession: T42710
R;Wu, K.; Yuan, J.; Lasky, L.A.
J. Biol. Chem. 271, 21323-21330, 1996
A;Title: Characterization of a novel member of the macrophage mannose receptor type C le
A;Reference number: Z22235; MUID:96355501; PMID:8702911
A;Accession: T42710
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: mRNA
A;Residues: 1-1479 <WUK>
A;Cross-references: EMBL:U56734; NID:g1336073; PID:g1336074; PIDN:AAC52729.1
A;Superfamily: phospholipase A2 receptor; C-type lectin homology; fibronectin type II re
C;Keywords: membrane protein; receptor
F;186-227/Domain: fibronectin type II repeat homology <2FR>

Query Match 8.5%; Score 170.5; DB 2; Length 1479;
Best Local Similarity 31.4%; Pred. No. 1.3e-05;
Matches 48; Conservative 22; Mismatches 48; Indels 35; Gaps 7;

QY 28 SCQVCRGGTQRPCYKVIYFHDTSRRRLNFEEAKEACRRDGGQLVSI ESEDEQKLI EKFI 87
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :
Db 384 SWQPF-----QGH CYRL-----QA EKR SWQESKRA CLRG GDL LSIH S MALEF ITKQIK 433
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :

QY 88 NLLPSD GDFWIGLRRRREKQSNSTACQDLYAWTDGSI SQFRN WYVDEPS-----CGSEV CVV 144
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :
Db 434 QEVE---ELWIGL-----NDLKLQMFWS DGLSVS FTHWHPFEPNFRD SLEDCVT 482
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :

QY 145 MYHQPSAPAGIGGYPYMFQW NDR CNMKNFICK 177
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :
Db 483 IW-----GPEG-----RW NDS PCNQSLPSICK 504
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :

RESULT 11
A39808
proteoglycan core protein, cartilage - bovine (fragments)
N;Alternate names: aggrecan; aggregating cartilage proteoglycan
C;Species: Bos primigenius taurus (cattle)
C;Date: 20-Mar-1992 #sequence revision 23-Mar-1995 #text change 13-Aug-1999
C;Accession: A34234; A27752; A39808; A27751; E29164; B27751; C27751; E27751; F27
R;Antonsson, P.; Heinegard, D.; Oldberg, A.
J. Biol. Chem. 264, 16170-16173, 1989
A;Title: The keratan sulfate-enriched region of bovine cartilage proteoglycan consists o
A;Reference number: A34234; MUID:89380219; PMID:2528543
A;Accession: A34234
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 128-621 <ANT>
A;Cross-references: GB:J05028
R;Oldberg, A.; Antonsson, P.; Heinegard, D.
Biochem. J. 243, 255-259, 1987
A;Title: The partial amino acid sequence of bovine cartilage proteoglycan, deduced from a
A;Reference number: A27752; MUID:87270630; PMID:3111460
A;Accession: A27752
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 622-1340 <OLD>
R;Sandy, J.D.; Boynton, R.E.; Flannery, C.R.
J. Biol. Chem. 266, 8198-8205, 1991
A;Title: Analysis of the catabolism of aggrecan in cartilage explants by quantitation of
A;Reference number: A39808; MUID:91217051; PMID:2022637
A;Accession: A39808
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-28159-82;131-137,'QSET',142-149;196-207;226-249;1137-1143;1252-1267;1274-1
R;Perin, J.P.; Bonnet, F.; Jolles, P.
FEBS Lett. 206, 73-77, 1986
A;Title: Structural relationship between link proteins and proteoglycan monomers.
A;Reference number: A27751; MUID:87005253; PMID:3530809
A;Accession: A27751
A;Molecule type: protein
A;Residues: 29-58;74-130;174-175,'A',177-204;208-225 <PER>
R;Perin, J.P.; Bonnet, F.; Jolles, J.; Jolles, P.
FEBS Lett. 176, 37-42, 1984
A;Title: Sequence data concerning the protein core of the cartilage proteoglycan monomer

A;Reference number: A91327; MUID:85027710; PMID:6489519
A;Accession: E29164
A;Molecule type: protein
A;Residues: 1230-1249 <PE2>
C;Superfamily: aggrecan; C-type lectin homology; complement factor H repeat homology; EG
C;Keywords: glycoprotein
F;8-28/Domain: link protein repeat homology (fragment) <LNK1>
F;29-58/Domain: link protein repeat homology (fragment) <LNK2>
F;80-146/Domain: link protein repeat homology (fragments) <LNK3>
F;167-248/Domain: link protein repeat homology <LNK4>
F;1130-1250/Domain: C-type lectin homology <LCH>
F;1257-1313/Domain: complement factor H repeat homology <FHD>

Query Match 7.9%; Score 158.5; DB 2; Length 1340;
Best Local Similarity 26.8%; Pred. No. 0.00011;
Matches 48; Conservative 29; Mismatches 59; Indels 43; Gaps 10;

QY 30 QPVCRRG---TQRPCYKVIYFHDTSRRRLNFEEAKEACRRDGGQLVSI ESEDEQKLI EKFI 86
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :
Db 1127 QKLC EGTWTKFQGH CYR--HFPD---RATWVDAESQCRKQSHLSSIVTPEEQ-----EFV 1177
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :

QY 87 ENLLPSD GDFWIGLRRRREKQSNSTACQDLYAWTDGSI SQFRN WYVDEP-----SCGSEV 141
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :
Db 1178 NN---NAQDYQWIGL-----NDKTIEGDFRWS DGHSLQFENWRPNQDNFFATGEDC 1226
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :

QY 142 CVVMYHQPSAPAGIGGYPYMFQW NDR CNMKNFICKYS----DEKPAVPSREAEGEETE 196
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :
Db 1227 VVMIWHEKG-----EW NDVPCNYQLPFTCKKGTVACGEPV VVEHARIFGQKXD 1274
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :

RESULT 12
T42630
aggrecan - bovine
C;Species: Bos primigenius taurus (cattle)
C;Date: 11-Jan-2000 #sequence_revision 11-Jan-2000 #text_change 04-Mar-2000
C;Accession: T42630
R;Hering, T.M.; Kollar, J.; Huynh, T.D.
submitted to the EMBL Data Library, September 1996
A;Description: Complete coding sequence of bovine aggrecan: comparative structural analy
A;Reference number: Z22182
A;Accession: T42630
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: mRNA
A;Residues: 1-2327 <HER>
A;Cross-references: EMBL:U76615; NID:g1730259; PID:g1730260; PIDN:AAB38524.1
A;Experimental source: articular chondrocytes
C;Superfamily: aggrecan; C-type lectin homology; complement factor H repeat homology; EG
C;Keywords: cartilage; chondroitin sulfate proteoglycan; extracellular matrix; glycoprot

Query Match 7.9%; Score 158.5; DB 2; Length 2327;
Best Local Similarity 26.8%; Pred. No. 0.00022;
Matches 48; Conservative 29; Mismatches 59; Indels 43; Gaps 10;

QY 30 QPVCRRG---TQRPCYKVIYFHDTSRRRLNFEEAKEACRRDGGQLVSI ESEDEQKLI EKFI 86
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :
Db 2114 QKLC EGTWTKFQGH CYR--HFPD---RATWVDAESQCRKQSHLSSIVTPEEQ-----EFV 2164
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :

QY 87 ENLLPSD GDFWIGLRRRREKQSNSTACQDLYAWTDGSI SQFRN WYVDEP-----SCGSEV 141
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :
Db 2165 NN---NAQDYQWIGL-----NDKTIEGDFRWS DGHSLQFENWRPNQDNFFATGEDC 2213
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :

QY 142 CVVMYHQPSAPAGIGGYPYMFQW NDR CNMKNFICKYS----DEKPAVPSREAEGEETE 196
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :
Db 2214 VVMIWHEKG-----EW NDVPCNYQLPFTCKKGTVACGEPV VVEHARIFGQKXD 2261
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :

RESULT 13
A39086
aggrecan precursor, cartilage long splice form [validated] - human
N;Alternate names: chondroitin sulfate proteoglycan 1; large aggregating proteoglycan; p
N;Contains: aggrecan cartilage short splice form
C;Species: Homo sapiens (man)
C;Date: 10-Sep-1999 #sequence_revision 01-Dec-2000 #text_change 08-Dec-2000

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 9, 2004, 22:18:15 ; Search time 12 Seconds
(without alignments)
1622.853 Million cell updates/sec

Title: US-09-887-855-2
Perfect score: 2000
Sequence: 1 MRPGTALQAVLLVLLVGLR.....PDQMGRSKESGWVENEIYGY 374

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 141681 seqs, 52070155 residues

Total number of hits satisfying chosen parameters: 141681

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : SwissProt_42:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	657	32.9	273	1	CHOD_MOUSE
2	645	32.2	273	1	CHOD_HUMAN
3	183	9.2	1456	1	MANR_HUMAN
4	177	8.8	1268	1	PGCN_MOUSE
5	176	8.8	1321	1	PGCN_HUMAN
6	174.5	8.7	3381	1	PGCV_BOVIN
7	174	8.7	1257	1	PGCN_RAT
8	174	8.7	2738	1	PGCV_RAT
9	174	8.7	3358	1	PGCV_MOUSE
10	174	8.7	3396	1	PGCV_HUMAN
11	172.5	8.6	643	1	CD93_RAT
12	171	8.6	3562	1	PGCV_CHICK
13	158.5	7.9	2364	1	PGCA_BOVIN
14	158.5	7.9	2415	1	PGCA_HUMAN
15	157.5	7.9	652	1	CD93_HUMAN
16	155.5	7.8	2333	1	PGCA_CANFA
17	154.5	7.7	612	1	LEM2_MOUSE
18	154.5	7.7	644	1	CD93_MOUSE
19	153.5	7.7	158	1	LECG_TRIST
20	153.5	7.7	2124	1	PGCA_RAT
21	153	7.6	162	1	LEC3_MEGRO
22	152	7.6	912	1	PGCB_BOVIN
23	151	7.5	197	1	CLE1_HUMAN
24	149	7.4	321	1	FCE2_HUMAN
25	148.5	7.4	152	1	IXA_TRIFL
26	148.5	7.4	2132	1	PGCA_MOUSE
27	147	7.3	883	1	PGCB_MOUSE
28	146	7.3	2109	1	PGCA_CHICK
29	145	7.2	883	1	PGCB_RAT
30	144.5	7.2	173	1	LEC2_MEGRO
31	144.5	7.2	372	1	LEM1_RAT
32	143.5	7.2	372	1	LEM1_MOUSE
33	143	7.1	549	1	LEM2_RAT

34	141.5	7.1	165	1	LIT1_MOUSE
35	141.5	7.1	331	1	FCE2_MOUSE
36	140	7.0	370	1	LEM1_BOVIN
37	139	7.0	248	1	PSPA_HUMAN
38	139	7.0	283	1	LECA_SARPE
39	138.5	6.9	172	1	LECA_PLEWA
40	138.5	6.9	202	1	TETN_MOUSE
41	137.5	6.9	372	1	LEM1_MACMU
42	137.5	6.9	372	1	LEM1_PAPHA
43	136	6.8	175	1	LITH_BOVIN
44	134.5	6.7	132	1	ACAL_ANSAN
45	134.5	6.7	372	1	LEM1_PONPY

ALIGNMENTS

RESULT 1
CHOD_MOUSE
ID CHOD_MOUSE STANDARD; PRT; 273 AA.
AC Q9CXM0; Q8VI31;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Chondrolectin precursor (Transmembrane protein MT75).
GN CHODL.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J;
RA Weng L., Smits P., Hubner R., Wouters J., Merregaert J.;
RT "Mt75, a low expressed c-type lectin gene involving in
chondrogenesis."
RL Submitted (OCT-2000) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Embryonic head;
RX MEDLINE=21085660; PubMed=11217851;
RA Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,
Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I.,
Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,
Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
Fleischmann W., Gaasterland T., Gissi C., King B., Kochiwa H.,
Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
Schriml L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T.,
Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,
Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,
Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
Gustincich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,
Lyons P., Marchionni L., Mashima J., Mazzarelli J., Sakamoto N.,
Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
Suzuki H., Toyooka K., Wang K.H., Weitz C., Whittaker C., Wilming L.,
Wynshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohtsuki S.,
Hayashizaki Y.;
RT "Functional annotation of a full-length mouse cDNA collection."
RL Nature 409:685-690(2001).
CC -!- SUBCELLULAR LOCATION: Type I membrane protein (Potential).
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.

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EMBL; AF311699; AAL50354.1; -.

DR	EMBL; AK014255; BAB29226.1; ..	RA	Rosenthal A., Kudoh J., Shibuya K., Kawasaki K., Asakawa S., Shintani A., Sasaki T., Nagamine K., Mitsuyama S., Antonarakis S.E., Minoshima S., Shimizu N., Nordstiek G., Hornischer K., Brandt P., Scharfe M., Schoen O., Desario A., Reichelt J., Kauer G., Bloeker H., Ramser J., Beck A., Klages S., Hennig S., Riesselmann L., Dagand E., Wehrmeyer S., Borzym K., Gardiner K., Nizetic D., Francis F., Lehrach H., Reinhardt R., Yaspo M.-L.;
DR	PROSITE; PS00615; C TYPE LECTIN 1; FALSE_NEG.	RT	"The DNA sequence of human chromosome 21.";
DR	PROSITE; PS50041; C TYPE LECTIN 2; 1.	RL	Nature 405:311-319(2000).
KW	Lectin; Transmembrane; Glycoprotein; Signal.	RN	[3]
FT	SIGNAL 1 21 POTENTIAL.	RP	SEQUENCE FROM N.A.
FT	CHAIN 22 273 CHONDROLECTIN.	RC	TISSUE=Brain;
FT	DOMAIN 22 216 EXTRACELLULAR (POTENTIAL).	RX	MEDLINE=22388257; PubMed=12477932;
FT	TRANSMEM 217 237 POTENTIAL.	RA	Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G., Klausner R.D., Collins F.S., Wagner L., Shennan C.M., Schuler G.D., Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K., Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F., Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L., Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E., Brownstein M.J., Ustin T.B., Toshiyuki S., Carninci P., Prange C., Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullany S.J., Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H., Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W., Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A., Fahey J., Helton E., Kettman M., Madan A., Rodrigues S., Sanchez A., Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G., Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C., Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
QY	Query Match 32.9%; Score 657; DB 1; Length 273;	RT	"Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences.";
Db	Best Local Similarity 49.1%; Pred. No. 3.7e-48;	RL	Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
Db	Matches 139; Conservative 38; Mismatches 80; Indels 26; Gaps 9;	RN	[4]
QY	10 VLLAVLLVGLRAATGRLLSQPVCRGGTQPCYKVIYFHDTSRLNFEEAKEACRRDGGQ 69	RP	SEQUENCE OF 27-273 FROM N.A.
Db	8 LLGALLCAQAFARRVVGQVCFADVKHPCYKMAVFHELSSRVSFQEARLACESEGGV 67	RA	Isogai T., Ota T., Hayashi K., Sugiyama T., Otsuki T., Suzuki Y., Nishikawa T., Nagai K., Sugano S., Shiratori A., Sudo H., Wagatsuma M., Hosoi T., Kaku Y., Kodaira H., Kondo H., Sugawara M., Takahashi M., Chiba Y., Ishida S., Murakawa K., Ono Y., Takiguchi S., Watanabe S., Kimura K., Murakami K., Ishii S., Kawai Y., Saito K., Yamamoto J., Wakamatsu A., Nakamura Y., Nagahari K., Masuho Y., Ninomiya K., Iwayanagi T.;
QY	70 LVSTESDEQKLEKFIENLLP-----SDGDFWIGLRREKQSNSTACQDLYAWTDGSI 124	RT	"NEDO human cDNA sequencing project.";
Db	68 LLSLENAEQKLIESMLQNLTKPGTGISDGDGFWIGLRSGDGT-SGACPDLYQWSDGSS 126	RL	Submitted (AUG-2000) to the EMBL/GenBank/DBJ databases.
QY	125 SQFRNWTDEPSCGSEVCVVMYHQPSAPAGIGGPNFQWDDRCNMKNFICKYSDE-KP 183	RN	[5]
Db	127 SQFRNWTDEPSCGSEKCVVMYHQPTANPLGLGPLYQWDDRCNMKNYICTYEPIHP 186	RP	TISSUE SPECIFICITY.
QY	184 AVPSREAGEETELTPVLPETQEDAKTKFKESREAAAL--NLAYILIPSIPLLLLLVV 241	RX	MEDLINE=21564202; PubMed=11707072;
Db	187 TEPA-----EKPYLTNQ--PEETHENVV-----VTEAGIIPNLIIYIPTIPLLLILV 233	RA	Reymond A., Friedli M., Neergard Henriksen C., Chapot F., Deutsch S., Ucla C., Rossier C., Lyle R., Guipponi M., Antonarakis S.E.;
QY	242 TTVCVWVWICRKRK-REQDPSTKKQHTIWPSPHOGNSPDLEV 283	RT	"From PREDS and open reading frames to cDNA isolation: revisiting the human chromosome 21 transcription map.";
Db	234 ALGTCFCFQMLHKSGRSKTSPN--QSTLWISKSTRKESGMEV 273	RL	Genomics 78:46-54(2001).
RESULT 2		CC	-!- SUBCELLULAR LOCATION: Type I membrane protein (Potential).
CHOD_HUMAN	STANDARD; PRT; 273 AA.	CC	-!- TISSUE SPECIFICITY: Found in spleen, testis, prostate and fetal liver. Expression limited to vascular muscle of testis, smooth muscle of prostate stroma, heart muscle, skeletal muscle, crypts of small intestine, and red pulp of spleen.
ID	Q9H9P2; Q9HCY3;	CC	-!- PTM: N-glycosylated.
AC	16-OCT-2001 (Rel. 40, Created)	CC	-!- SIMILARITY: Contains 1 C-type lectin family domain.
DT	16-OCT-2001 (Rel. 40, Last sequence update)	CC	This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/ or send an email to license@isb-sib.ch).
DT	15-MAR-2004 (Rel. 43, Last annotation update)	CC	EMBL; AF257472; AAL05981.1; ..
DE	Chondrolectin precursor (Transmembrane protein MT75) (Protein PRED12).	CC	EMBL; AL163217; CAB90388.1; ..
GN	CHODL OR C21ORF68.	CC	EMBL; BC009418; AAH09418.1; ..
OS	Homo sapiens (Human).	CC	EMBL; AK022689; BAB14181.1; ALT_INIT.
OC	Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;	CC	HSSP; P22897; 1EGG.
OC	Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.		
OX	NCBI_TaxID=9606;		
RN	[1]		
RP	SEQUENCE FROM N.A., AND TISSUE SPECIFICITY.		
RX	MEDLINE=22074930; PubMed=12079284;		
RA	Weng L., Smits P., Wauters J., Merregaert J.;		
RT	"Molecular cloning and characterization of human chondrolectin, a novel type I transmembrane protein homologous to C-type lectins.";		
RL	Genomics 80:62-70(2002).		
RN	[2]		
RP	SEQUENCE FROM N.A.		
RX	MEDLINE=20289799; PubMed=10830953;		
RA	Hattori M., Fujiyama A., Taylor T.D., Watanabe H., Yada T., Park H.-S., Toyoda A., Ishii K., Totoki Y., Choi D.-K., Groner Y., Soeda E., Ohki M., Takagi T., Sakaki Y., Taudien S., Blechschmidt K., Polley A., Menzel U., Delabar J., Kumpf K., Lehmann R., Patterson D., Reichwald K., Rump A., Schillhabel M., Schudy A., Zimmermann W.,		

DR ProDom; PD000918; Link; 2.
 DR SMART; SM00032; CCP; 1.
 DR SMART; SM00034; CLECT; 1.
 DR SMART; SM00179; EGF CA; 1.
 DR SMART; SM00409; IG; 1.
 DR SMART; SM00445; LINK; 2.
 DR PROSITE; PS00010; ASX HYDROXYL; 1.
 DR PROSITE; PS00615; C TYPE LECTIN_1; 1.
 DR PROSITE; PS00041; C TYPE LECTIN_2; 1.
 DR PROSITE; PS00022; EGF_1; 3.
 DR PROSITE; PS01186; EGF_2; 1.
 DR PROSITE; PS00026; EGF_3; 2.
 DR PROSITE; PS01187; EGF CA; 1.
 DR PROSITE; PS00835; IG LIKE; 1.
 DR PROSITE; PS01241; LINK; 2.
 KW Glycoprotein; Hyaluronic acid; Proteoglycan; Immunoglobulin domain;
 KW EGF-like domain; Calcium; Repeat; Lentin; Sushi; Signal; Polymorphism.
 FT SIGNAL 1 22
 FT CHAIN 23 1321
 FT DOMAIN 38 153
 FT DOMAIN 159 254
 FT DOMAIN 260 356
 FT DOMAIN 1008 1044
 FT DOMAIN 1046 1082
 FT DOMAIN 1084 1213
 FT DOMAIN 1214 1272
 FT DISULFID 59 140
 FT DISULFID 182 253
 FT DISULFID 206 227
 FT DISULFID 280 355
 FT DISULFID 304 325
 FT DISULFID 1012 1023
 FT DISULFID 1017 1032
 FT DISULFID 1034 1043
 FT DISULFID 1088 1099
 FT DISULFID 1116 1208
 FT DISULFID 1184 1200
 FT DISULFID 1215 1258
 FT DISULFID 1244 1271
 FT CARBOHYD 122 122
 FT CARBOHYD 340 340
 FT CARBOHYD 1026 1026
 FT CARBOHYD 1223 1223
 FT VARIANT 1254 1254
 FT CONFLICT 1234 1234
 FT CONFLICT 1282 1282
 FT SEQUENCE 1321 AA; 142972 MW; 2EF47F823DB980B8 CRC64;
 Query Match 8.8%; Score 176; DB 1; Length 1321;
 Best Local Similarity 31.5%; Pred. No. 1.4e-06;
 Matches 45; Conservative 18; Mismatches 48; Indels 32; Gaps 6;
 QY 38 QRPCYKVIYFHDTSRLNFEAEKACRRDGGQLVSISEDEQKLIKFIENLLPSDGF 97
 Db 1096 QGHCYR--YF---AHRRAWDAEKDCRRRSGLTSHVSPHEHSFINSP-----GHENTW 1144
 QY 98 IGLRRREEKQSNSTACQDLYAWTDGSIQFRNHWVDEPS---CGSEVCVVMYHQPAPAG 154
 Db 1145 IGLNDRIVERD-----FQWTDNTGLQFNWRENQPDNFFAGGEDCVVMVAHESG--- 1193
 QY 155 IGGPYMFQWDDRCNMKNFICK 177
 Db 1194 -----RWNDVPCNLYNPVCK 1209
 RESULT 6
 PGCV_BOVIN
 ID_PGCV_BOVIN STANDARD; PRT; 3381 AA.
 AC P81282; O77609; O77610; O77611; O77612;
 DT 15-DEC-1998 (Rel. 37, Created)
 DT 16-OCT-2001 (Rel. 40, Last sequence update)
 DT 10-OCT-2003 (Rel. 42, Last annotation update)

DE DE Versican core protein precursor (Large fibroblast proteoglycan)
 DE DE (Chondroitin sulfate proteoglycan core protein 2) (PG-M) (Glial
 DE DE hyaluronate-binding protein) (GHAP).
 GN CPBG2.
 OS Bos taurus (Bovine).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovoidea;
 OC Bovidae; Bovinae; Bos.
 OC NCBI_TaxID=9913;
 RN [1]
 RP SEQUENCE FROM N.A. (ISOFORMS V0; V1; V2 AND V3).
 RC TISSUE=Forebrain;
 RX MEDLINE=98288320; PubMed=9624174;
 RA Schmalfeldt M., Dours-Zimmermann M.T., Winterhalter K.H.,
 RA Zimmermann D.R.;
 RT "Versican V2 is a major extracellular matrix component of the mature
 RT bovine brain.";
 RL J. Biol. Chem. 273:15758-15764(1998).
 RN [2]
 RP SEQUENCE OF 21-53; 78-96; 226-250; 262-277; 295-306; 314-324; 329-331
 RP AND 342-348.
 RC TISSUE=Spinal cord;
 RX MEDLINE=92062692; PubMed=1720020;
 RA Perides G., Biviano F., Bignami A.;
 RT "Interaction of a brain extracellular matrix protein with hyaluronic
 RT acid.";
 RL Biochim. Biophys. Acta 1075:248-258(1991).
 CC -!- FUNCTION: May play a role in intercellular signaling and in
 CC connecting cells with the extracellular matrix. May take part in
 CC the regulation of cell motility, growth and differentiation. Binds
 CC hyaluronic acid.
 CC -!- SUBUNIT: Interacts with FBLN1 (By similarity).
 CC -!- SUBCELLULAR LOCATION: Secreted; extracellular matrix.
 CC -!- ALTERNATIVE PRODUCTS:
 CC Event=Alternative splicing; Named isoforms=4;
 CC Comment=Additional isoforms seem to exist;
 CC Name=V0;
 CC IsoId=P81282-1; Sequence=Displayed;
 CC Name=V1;
 CC IsoId=P81282-2; Sequence=VSP_003078, VSP_003079;
 CC Name=V2;
 CC IsoId=P81282-3; Sequence=VSP_003080;
 CC Name=V3;
 CC IsoId=P81282-4; Sequence=VSP_003078, VSP_003081;
 CC TISSUE SPECIFICITY: Cerebral white matter. V0 and V1 are expressed
 CC in the central nervous system, and in a number of mesenchymal and
 CC epithelial tissues; the major isoform V2 is restricted to the
 CC central nervous system.
 CC -!- DEVELOPMENTAL STAGE: Disappears after the cartilage development
 CC (By similarity).
 CC -!- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
 CC -!- SIMILARITY: Contains 2 link domains.
 CC -!- SIMILARITY: Contains 2 EGF-like domains.
 CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
 CC -!- SIMILARITY: Contains 1 Sushi (SCR) domain.
 CC -!- SIMILARITY: Belongs to the aggrecan/versican proteoglycan family.
 CC -----
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 CC -----
 CC EMBL; AF060456; AAC24358.1; -
 CC EMBL; AF060457; AAC24359.1; -
 CC EMBL; AF060458; AAC24360.1; -
 CC EMBL; AF060459; AAC24361.1; -
 CC PIR; T14274; T14274.
 CC PIR; T42389; T42389.
 CC HSSP; P01132; 1EPG.
 CC InterPro; IPR000152; Asx_hydroxyl_S.
 CC -----

DR InterPro; IPR000742; EGF_2.
DR InterPro; IPR001881; EGF_Ca.
DR InterPro; IPR006209; EGF_like.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003599; Ig.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR000538; Link.
DR InterPro; IPR000436; Sushi_SCR_CCP.
DR Pfam; PF000047; ig; 1.
DR Pfam; PF000059; lectin_c; 1.
DR Pfam; PF000084; sushi; 1.
DR Pfam; PF00193; Xlink; 2.
DR PRINTS; PR01265; LINKMODULE.
DR ProDom; PD000918; Link; 2.
DR SMART; SM00032; CCP; 1.
DR SMART; SM00034; CLECT; 1.
DR SMART; SM00179; EGF_CA; 1.
DR SMART; SM00409; IG; 1.
DR SMART; SM00445; LINK; 2.
DR PROSITE; PS00010; ASX_HYDROXYL; 1.
DR PROSITE; PS00615; C_TYPE_LECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LECTIN_2; 1.
DR PROSITE; PS00022; EGF_1; 2.
DR PROSITE; PS01186; EGF_2; 1.
DR PROSITE; PS50026; EGF_3; 2.
DR PROSITE; PS01187; EGF_CA; 1.
DR PROSITE; PS50835; IG LIKE; 1.
DR PROSITE; PS01241; LINK; 2.
KW Glycoprotein; Proteoglycan; Lectin; Extracellular matrix; Sushi;
KW Signal; Repeat; EGF-like domain; Calcium; Immunoglobulin domain;
KW Hyaluronic acid; Alternative splicing.
FT SIGNAL 1 20
FT CHAIN 21 3381
FT DOMAIN 21 147
FT DOMAIN 168 245
FT DOMAIN 266 347
FT DOMAIN 349 1336
FT DOMAIN 1337 3074
FT DOMAIN 3074 3110
FT DOMAIN 3112 3148
FT DOMAIN 3161 3275
FT DOMAIN 3280 3338
FT DISULFID 44 131
FT DISULFID 173 244
FT DISULFID 197 218
FT DISULFID 271 346
FT DISULFID 295 316
FT DISULFID 3078 3089
FT DISULFID 3083 3098
FT DISULFID 3100 3109
FT DISULFID 3116 3127
FT DISULFID 3121 3136
FT DISULFID 3138 3147
FT DISULFID 3154 3165
FT DISULFID 3182 3274
FT DISULFID 3250 3266
FT DISULFID 3281 3324
FT DISULFID 3310 3337
FT CARBOHYD 57 57
FT CARBOHYD 331 331
FT CARBOHYD 352 352
FT CARBOHYD 817 817
FT CARBOHYD 965 965
FT CARBOHYD 1017 1017
FT CARBOHYD 1333 1333
FT CARBOHYD 1393 1393
FT CARBOHYD 1437 1437
FT CARBOHYD 1463 1463
FT CARBOHYD 1653 1653
FT CARBOHYD 1974 1974
FT CARBOHYD 2045 2045

FT CARBOHYD 2074 2074 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 2103 2103 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 2263 2263 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 2290 2290 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 2356 2356 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 2623 2623 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 2641 2641 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 2919 2919 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 3052 3052 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 3354 3354 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 3364 3364 N-LINKED (GLCNAC. .) (POTENTIAL).
FT VARSPLIC 349 349 P -> R (in isoform V1 and isoform V3).
FT VARSPLIC 350 1336 /FTid=VSP 003078.
FT VARSPLIC 1337 3074 Missing (in isoform V1).
FT VARSPLIC 350 3074 Missing (in isoform V2).
FT VARSPLIC 350 3074 Missing (in isoform V3).
FT CONFLICT 25 25 /FTid=VSP 003081.
FT CONFLICT 51 51 MISSING (IN REF. 2).
FT CONFLICT 89 89 N -> D (IN REF. 2).
FT CONFLICT 96 96 Q -> D (IN REF. 2).
FT CONFLICT 346 346 C -> R (IN REF. 2).
SQ SEQUENCE 3381 AA; 369984 MW; F09716FA7778D459 CRC64;

Query Match 8.7%; Score 174.5; DB 1; Length 3381;
Best Local Similarity 25.5%; Pred.No. 7e-06;
Matches 59; Conservative 26; Mismatches 71; Indels 75; Gaps 11;

QY 38 QRPCYKVIYHDTSRRLNFEEAKEACRRDGGQLVSISEDEQKLEKFIENLLPSDGF- 96
Db 3162 QGQCYK--YF---AHRRTWDAERECRLQGAHLTSLSHSEQMFVNRV-----GHDIYQ 3209
QY 97 WIGLRRREKQSNSTACQDLYAWTDGSGISQFRNWWYDEP----SCGSEVCVVMYHQPSAP 152
Db 3210 WIGL-----NDKVFEDHDFRTDGTQYENWRPNQDPSFFSTGDCVVIWHENG-- 3259
QY 153 AGIGGYPYMFQWDDRCNMKNFNICKYS-----DEKPAVPSREAEGE----- 193
Db 3260 -----QWNDVPCNYHLTYCTKKGTVACGQPPVVENAKTFGKMKPRYEINSLIRYHC 3310
QY 194 -----ETELTT-----PVL-----PEETQEEDAKTKFKESREAAIN 224
Db 3311 KDGFIQRLPTIRCLNGRWAMPKITCLNPSAYQRTYSKKYFKNSSAKDN 3361

RESULT 7
PGCN_RAT
ID_PGCN_RAT STANDARD; PRT; 1257 AA.
AC P55067;
DT 01-OCT-1996 (Rel. 34, Created)
DT 01-OCT-1996 (Rel. 34, Last sequence update)
DT 15-MAR-2004 (Rel. 43, Last annotation update)
DE Neurocan core protein precursor (Chondroitin sulfate proteoglycan 3)
DE (245 kDa early postnatal core glycoprotein) [Contains: 150 kDa adult core glycoprotein].
GN CSPG3 OR NCAN.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.; AND PARTIAL SEQUENCE.
RC STRAIN=Sprague-Dawley; TISSUE=Brain;
RX MEDLINE=92406907; PubMed=1326557;
RA Rauch U., Karthikeyan L., Maurel P., Margolis R.U., Margolis R.K.;
RT "Cloning and primary structure of neurocan, a developmentally regulated, aggregating chondroitin sulfate proteoglycan of brain."
RL J. Biol. Chem. 267:19536-19547(1992).
RN [2]
RP CHARACTERIZATION.
RX MEDLINE=94230574; PubMed=7513709;

RA Friedlander D.R., Milev P., Karthikeyan L., Margolis R.K.,
RA Margolis R.U., Grunet M.;
RT "The neuronal chondroitin sulfate proteoglycan neurocan binds to the
RT neural cell adhesion molecules Ng-CAM/L1/NILE and N-CAM, and inhibits
RT neuronal adhesion and neurite outgrowth.";
RL J. Cell Biol. 125:669-680(1994).
CC -!- FUNCTION: May modulate neuronal adhesion and neurite growth during
CC development by binding to neural cell adhesion molecules (NG-CAM
CC and N-CAM). Chondroitin sulfate proteoglycan; binds to hyaluronic
CC acid.
CC -!- TISSUE SPECIFICITY: Early postnatal and adult brain; not expressed
CC in kidney, lung, liver and muscle.
CC -!- PTM: CONTAINS MOSTLY CHONDROITIN SULFATE, BUT ALSO N-LINKED AND
CC O-LINKED OLIGOSACCHARIDES (BY SIMILARITY).
CC -!- PTM: TWO ISOFORMS WERE FOUND THAT PROBABLY ARISE BY PROTEOLYTIC
CC DEGRADATION. THE LARGE ISOFORM IS PREDOMINANT IN EARLY POSTNATAL
CC BRAIN, THE SMALL ISOFORM IS FOUND IN ADULT BRAIN.
CC -!- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
CC -!- SIMILARITY: Contains 2 EGF-like domains.
CC -!- SIMILARITY: Contains 2 link domains.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC -!- SIMILARITY: Contains 1 Sushi (SCR) domain.
CC -!- SIMILARITY: Belongs to the aggrecan/versican proteoglycan family.
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DR EMBL; M97161; AAC37679.1; -.
DR PIR; S28764; S28764.
DR HSSP; P00740; LEDM.
DR InterPro; IPR002353; AntifreezeII.
DR InterPro; IPR00152; Asx_hydroxyl_s.
DR InterPro; IPR00742; EGF_2.
DR InterPro; IPR01881; EGF_Ca.
DR InterPro; IPR006209; EGF_like.
DR InterPro; IPR007110; Ig_Like.
DR InterPro; IPR003599; Ig.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR000538; Link.
DR InterPro; IPR000436; Sushi_SCR_CCP.
DR Pfam; PF00008; EGF; 2.
DR Pfam; PF00047; ig; 1.
DR Pfam; PF00059; lectin_c; 1.
DR Pfam; PF00084; sushi; 1.
DR Pfam; PF00193; Xlink; 2.
DR PRINTS; PR00356; ANTIFREEZEII.
DR PRINTS; PR01265; LINKMODULE.
DR ProDom; PD000918; Link; 2.
DR SMART; SM00032; CCP; 1.
DR SMART; SM00034; CLECT; 1.
DR SMART; SM00179; EGF_CA; 1.
DR SMART; SM00409; IG; 1.
DR SMART; SM00445; LINK; 2.
DR PROSITE; PS00010; ASX_HYDROXYL; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
DR PROSITE; PS00022; EGF_1; 3.
DR PROSITE; PS01186; EGF_2; 1.
DR PROSITE; PS50026; EGF_3; 2.
DR PROSITE; PS01187; EGF_CA; 1.
DR PROSITE; PS50835; IG_LIKE; 1.
DR PROSITE; PS01241; LINK; 2.
KW Glycoprotein; Hyaluronic acid; Proteoglycan; Immunoglobulin domain;
KW EGF-like domain; Calcium; Repeat; Lectin; Sushi; Signal.
FT SIGNAL 1 22
FT CHAIN 23 1257 NEUROCAN CORE PROTEIN.
FT CHAIN 639 1257 150 kDa ADULT CORE GLYCOPROTEIN.
FT DOMAIN 37 157 IG-LIKE V-TYPE.

FT	DOMAIN	158	253	LINK 1.
FT	DOMAIN	259	355	LINK 2.
FT	DOMAIN	949	985	EGF-LIKE 1.
FT	DOMAIN	987	1023	EGF-LIKE 2, CALCIUM-BINDING (POTENTIAL).
FT	DOMAIN	1025	1154	C-TYPE LECTIN.
FT	DOMAIN	1155	1213	SUSHI.
FT	DISULFID	58	139	BY SIMILARITY.
FT	DISULFID	181	252	BY SIMILARITY.
FT	DISULFID	205	226	BY SIMILARITY.
FT	DISULFID	279	354	BY SIMILARITY.
FT	DISULFID	303	324	BY SIMILARITY.
FT	DISULFID	953	964	BY SIMILARITY.
FT	DISULFID	958	973	BY SIMILARITY.
FT	DISULFID	975	984	BY SIMILARITY.
FT	DISULFID	1029	1040	BY SIMILARITY.
FT	DISULFID	1057	1149	BY SIMILARITY.
FT	DISULFID	1125	1141	BY SIMILARITY.
FT	DISULFID	1156	1199	BY SIMILARITY.
FT	DISULFID	1185	1212	BY SIMILARITY.
FT	CARBOHYD	121	121	N-LINKED (GLCNAC. . .) (POTENTIAL).
FT	CARBOHYD	339	339	N-LINKED (GLCNAC. . .) (POTENTIAL).
FT	CARBOHYD	737	737	N-LINKED (GLCNAC. . .) (POTENTIAL).
FT	CARBOHYD	944	944	O-LINKED (XYL. . .) (CHONDROITIN SULFATE).
FT	CARBOHYD	967	967	N-LINKED (GLCNAC. . .) (POTENTIAL).
FT	CARBOHYD	1164	1164	N-LINKED (GLCNAC. . .) (POTENTIAL).
SQ	SEQUENCE	1257 AA;	135544 MW;	992B33DCFA19EE1B CRC64;

Query Match 8.7%; Score 174; DB 1; Length 1257;
Best Local Similarity 30.8%; Pred. No. 2e-06;
Matches 44; Conservative 18; Mismatches 49; Indels 32; Gaps 6;

QY	38	QRPCYKVIYFHTSRLNFEBAKEACRRDGGQLVSISEDEQKLEKFIENLLPSDGDWF	97
Db	1037	QGHCYR--YF---AHRRAWEADAERDCRRRAGHLTSVHSPEEHKFINSF	1085
QY	98	IGLRRREKQSNSTACQDLYAWTDGSIQFRNWTYVDEPS---CGSEVCVVMYHQPSAPAG	154
Db	1086	IGLNDRTVERD-----FQWTDNTGLQYENWREKQPDNFFAGGEDCVVMVAHENG---	1134
QY	155	IGGPFYFQWDDRCNMKNPFICK	177
Db	1135	-----RWNDVPCNYNLPYVCK	1150

RESULT 8

PGCV RAT
ID_PGCVRAT STANDARD; PRT; 2738 AA.
AC Q9ERB4; O08592; O08564; Q9RIK4;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Versican core protein precursor (Large fibroblast proteoglycan)
DE (Chondroitin sulfate proteoglycan core protein 2) (PG-M) (Glial
DE hyaluronate-binding protein) (GHAP) (Fragments).
GN CP5G2.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Euthera; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE OF 349-2738 FROM N.A. (ISOFORM V0), SEQUENCE FROM N.A.
RP (ISOFORM V3), AND SEQUENCE OF 2657-2738 FROM N.A. (ISOFORM VINT).
RC STRAIN=Wistar Kyoto;
RX MEDLINE=99327053; PubMed=10397680;
RA Lemire J.M., Braun K.R., Maurel P., Kaplan E.D., Schwartz S.M.,
RA Wight T.N.;
RT "Versican/PG-M isoforms in vascular smooth muscle cells.";
RL Arterioscler. Thromb. Vasc. Biol. 19:1630-1639(1999).
RN [2]
RP SEQUENCE OF 349-2738 FROM N.A. (ISOFORM V0).
RC STRAIN=Wistar Kyoto;
RX MEDLINE=98308094; PubMed=9642104;
RA Milev P., Maurel P., Chiba A., Mevissen M., Popp S., Yamaguchi Y.,

RA Margolis R.K., Margolis R.U.;
RT "Differential regulation of expression of hyaluronan-binding
RT proteoglycans in developing brain: aggrecan, versican, neurocan, and
RT brevicain.";
RL Biochem. Biophys. Res. Commun. 247:207-212(1998).
RN [3]
RP SEQUENCE OF 2421-2463 FROM N.A. (ISOFORM V0).
RC TISSUE=Kidney;
RX MEDLINE=98094159; PubMed=9434070;
RA Pyke C., Kristensen P., Ostergaard P.B., Oturai P.S., Romer J.;
RT "Proteoglycan expression in the normal rat kidney.";
RL Nephron 77:461-470(1997).
RN [4]
RP SEQUENCE OF 2535-2738 FROM N.A.
RC STRAIN=Sprague-Dawley; TISSUE=Lung;
RA Blomberg L.A., Chan W.-Y., Clerch L., Massaro D.;
RT "Molecular cloning and characterization of two developmentally
RT regulated genes in rat lung.";
RL Submitted (SEP-2000) to the EMBL/GenBank/DBJ databases.
CC -!- FUNCTION: May play a role in intercellular signaling and in
CC connecting cells with the extracellular matrix. May take part in
CC the regulation of cell motility, growth and differentiation. Binds
CC hyaluronic acid.
CC -!- SUBUNIT: Interacts with FBLN1 (By similarity).
CC -!- SUBCELLULAR LOCATION: Secreted; extracellular matrix.
CC -!- ALTERNATIVE PRODUCTS:
CC Event=Alternative splicing; Named isoforms=3;
CC Comment=Additional isoforms seem to exist;
CC Name=V0;
CC IsoId=Q9ERB4-1; Sequence=Displayed;
CC Name=V3;
CC IsoId=Q9ERB4-2; Sequence=VSP_003091;
CC Name=Vint;
CC IsoId=Q9ERB4-3; Sequence=VSP_003092;
CC TISSUE SPECIFICITY: In kidney is expressed in the papillary area,
CC but not in glomeruli.
CC -!- DEVELOPMENTAL STAGE: Disappears after the cartilage development
CC (By similarity).
CC -!- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
CC -!- SIMILARITY: Contains 2 link domains.
CC -!- SIMILARITY: Contains 2 EGF-like domains.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC -!- SIMILARITY: Contains 1 Sushi (SCR) domain.
CC -!- SIMILARITY: Belongs to the aggrecan/versican proteoglycan family.

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DR EMBL; AF062402; AAC40166.1; -.
DR EMBL; U75306; AAB51125.1; -.
DR EMBL; AF084544; AAD48544.1; -.
DR EMBL; AF072892; AAC26116.1; -.
DR EMBL; AY007691; AAG16631.1; -.
DR HSSP; P01132; 1EPG.
DR InterPro; IPR000152; Asx hydroxyl_s.
DR InterPro; IPR000742; EGF_2.
DR InterPro; IPR001881; EGF_Ca.
DR InterPro; IPR006209; EGF_like.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003599; Ig.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR000538; Link.
DR InterPro; IPR000436; Sushi_SCR_CCP.
DR PRINTS; PR01265; LINKMODULE.
DR ProDom; PD000918; Link; 2.
DR SMART; SM00032; CCP; 1.
DR SMART; SM00034; CLECT; 1.
DR SMART; SM00179; EGF_CA; 1.

DR SMART; SM00409; IG; 1.
DR SMART; SM00445; LINK; 2.
DR PROSITE; PS00010; ASX_HYDROXYL; 1.
DR PROSITE; PS00615; C_TYPE_LECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LECTIN_2; 1.
DR PROSITE; PS00022; EGF_1; 2.
DR PROSITE; PS01186; EGF_2; 1.
DR PROSITE; PS50026; EGF_3; 2.
DR PROSITE; PS01187; EGF_CA; 1.
DR PROSITE; PS50835; IG_LIKE; 1.
DR PROSITE; PS01241; LINK; 2.
KW Glycoprotein; Proteoglycan; Lectin; Extracellular matrix; Sushi;
KW Signal; Repeat; EGF-like domain; Calcium; Immunoglobulin domain;
KW Hyaluronic acid; Alternative splicing.
FT SIGNAL 1 20
FT CHAIN 21 2738
FT NON CONS 348 349
FT DOMAIN 21 146
FT DOMAIN 167 244
FT DOMAIN 265 346
FT DOMAIN <349 695
FT DOMAIN 696 2431
FT DOMAIN 2431 2467
FT DOMAIN 2469 2505
FT DOMAIN 2518 2632
FT DOMAIN 2637 2695
FT DISULFID 44 130
FT DISULFID 172 243
FT DISULFID 196 217
FT DISULFID 270 345
FT DISULFID 294 315
FT DISULFID 2435 2446
FT DISULFID 2440 2455
FT DISULFID 2457 2466
FT DISULFID 2473 2484
FT DISULFID 2478 2493
FT DISULFID 2495 2504
FT DISULFID 2511 2522
FT DISULFID 2539 2631
FT DISULFID 2607 2623
FT DISULFID 2638 2681
FT DISULFID 2667 2694
FT CARBOHYD 57 57
FT CARBOHYD 330 330
FT CARBOHYD 692 692
FT CARBOHYD 758 758
FT CARBOHYD 802 802
FT CARBOHYD 805 805
FT CARBOHYD 1257 1257
FT CARBOHYD 1435 1435
FT CARBOHYD 1633 1633
FT CARBOHYD 1660 1660
FT CARBOHYD 1684 1684
FT CARBOHYD 1738 1738
FT CARBOHYD 1848 1848
FT CARBOHYD 2004 2004
FT CARBOHYD 2409 2409
FT CARBOHYD 2711 2711
FT CARBOHYD 2721 2721
FT VARSPLIC 349 2431
FT VARSPLIC 2697 2738
FT FT 2535 2539
FT CONFLICT 2535 2539
FT SEQUENCE 2738 AA; 300004 MW; 12CA626D58BD8C6A CRC64;
SQ

Query Match 8.7%; Score 174; DB 1; Length 2738;
Best Local Similarity 28.5%; Pred. No. 5.8e-06;
Matches 47; Conservative 23; Mismatches 55; Indels 40; Gaps 8;
QY 38 QRCYKVIYFHDTSRRRLNPFEEAKEACRRDGGQLVSISEDEQKLIKFIENLPSDGDGDF- 96

Db 2519 QGQCYK--YF---AHRRTWDAARECRLOGAHLTSLSHHEQMFVNRV-----GHDYQ 2566
 QY 97 WIGLRRREKQSNSTACQDLYAWTDGSIQFRNMYVDEP-----SCGSEVCVVMYHQPSAP 152
 Db 2567 WIGL-----NDKMFHDFRWDGSALOYENWRPNQDPSFFSAGEDCVVIWHENG-- 2616
 QY 153 AGIGGPFYFQWDDRCNMKNFKICKYS----DEKPAVPREAGE 193
 Db 2617 -----QWNDVPCNYHLTYCKKGTVACGQPPVVENAKTFGK 2652

RESULT 9

PGCV_MOUSE
 ID PGCV_MOUSE STANDARD; PRT; 3358 AA.
 AC Q62059; Q62058; Q9CUU0;
 DT 01-NOV-1997 (Rel. 35, Created)
 DT 01-NOV-1997 (Rel. 35, Last sequence update)
 DT 15-MAR-2004 (Rel. 43, Last annotation update)
 DE Versican core protein precursor (large fibroblast proteoglycan)
 GN CSPG2.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A. (ISOFORMS V0; V1 AND V2).
 RC STRAIN=C57BL/6; and Swiss Webster; TISSUE=Brain;
 RX MEDLINE=95122551; PubMed=7822336;
 RA Ito K., Shinomura T., Zako M., Ujita M., Kimata K.;
 RT "Multiple forms of mouse PG-M, a large chondroitin sulfate
 proteoglycan generated by alternative splicing.";
 RL J. Biol. Chem. 270:958-965(1995).
 RN [2]
 RP SEQUENCE FROM N.A. (ISOFORM V3).
 RC STRAIN=C57BL/6;
 RX MEDLINE=95181355; PubMed=7876137;
 RA Zako M., Shinomura T., Ujita M., Ito K., Kimata K.;
 RT "Expression of PG-M(V3), an alternatively spliced form of PG-M
 without a chondroitin sulfate attachment in region in mouse and human
 tissues.";
 RL J. Biol. Chem. 270:3914-3918(1995).
 RN [3]
 RP SEQUENCE OF 1-1692 FROM N.A. (ISOFORM V1).
 RC STRAIN=C57BL/6J; TISSUE=Skin;
 RX MEDLINE=22354683; PubMed=12466851;
 RA Okazaki Y., Furuno M., Kasukawa T., Adachi J., Bono H., Kondo S.,
 RA Nikaide I., Osato N., Saito R., Suzuki H., Yamanaka I., Kiyosawa H.,
 RA Yagi K., Tomaru Y., Hasegawa Y., Nogami A., Schonbach C., Gojobori T.,
 RA Baldarelli R., Hill D.P., Bult C., Hume D.A., Quackenbush J.,
 RA Schriml L.M., Kanapin A., Matsuda H., Batalov S., Beisel K.W.,
 RA Blake J.A., Bradt D., Brusci V., Chothia C., Corbani L.E., Cousins S.,
 RA Dalla E., Dragani T.A., Fletcher C.F., Forrest A., Frazer K.S.,
 RA Gaasterland T., Gariboldi M., Gissi C., Godzik A., Gough J.,
 RA Grimmond S., Gustincich S., Hirokawa N., Jackson I.J., Jarvis E.D.,
 RA Kanai A., Kawaji H., Kawasawa Y., Kedzierski R.M., King B.L.,
 RA Konagaya A., Kurochkin I.V., Lee Y., Lenhard B., Lyons P.A.,
 RA Maglott D.R., Maltais L., Marchionni L., McKenzie L., Miki H.,
 RA Nagashima T., Numata K., Okido T., Pavan W.J., Pertea G., Pesole G.,
 RA Petrovsky N., Pillai R., Pontius J.U., Qi D., Ramachandran S.,
 RA Ravasi T., Reed J.C., Reed D.J., Reid J., Ring B.Z., Ringwald M.,
 RA Sandelin A., Schneider C., Semple C.A., Setou M., Shimada K.,
 RA Sultana R., Takenaka Y., Taylor M.S., Teasdale R.D., Tomita M.,
 RA Verardo R., Wagner L., Wahlestedt C., Wang Y., Watanabe Y., Wells C.,
 RA Wilming L.G., Wynshaw-Boris A., Yanagisawa M., Yang I., Yang L.,
 RA Yuan Z., Zavolan M., Zhu Y., Zimmer A., Carninci P., Hayatsu N.,
 RA Hirozane-Kishikawa T., Konno H., Nakamura M., Sakazume N., Sato K.,
 RA Shiraki T., Waki K., Kawai J., Aizawa K., Arakawa T., Fukuda S.,
 RA Hara A., Hashizume W., Imotani K., Ishii Y., Itoh M., Kagawa I.,
 RA Miyazaki A., Sakai K., Sasaki D., Shibata K., Shinagawa A.,
 RA Yasunishi A., Yoshino M., Waterston R., Lander E.S., Rogers J.,
 RA Birney E., Hayashizaki Y.;

RT "Analysis of the mouse transcriptome based on functional annotation of
 RT 60,770 full-length cDNAs.";
 RL Nature 420:563-573(2002).
 RN [4]
 RP INTERACTION WITH FBLN1.
 RX MEDLINE=99329059; PubMed=10400671;
 RA Aspberg A., Adam S., Kostka G., Timpl R., Heinigaard D.;
 RT "Fibulin-1 is a ligand for the C-type lectin domains of aggrecan and
 versican.";
 RL J. Biol. Chem. 274:20444-20449(1999).
 CC -!- FUNCTION: May play a role in intercellular signaling and in
 CC connecting cells with the extracellular matrix. May take part in
 CC the regulation of cell motility, growth and differentiation. Binds
 CC hyaluronic acid.
 CC -!- SUBUNIT: Interacts with FBLN1.
 CC -!- SUBCELLULAR LOCATION: Secreted; extracellular matrix.
 CC -!- ALTERNATIVE PRODUCTS:
 CC Event=Alternative splicing; Named isoforms=4;
 CC Comment=Additional isoforms seem to exist;
 CC Name=V0;
 CC IsoId=Q62059-1; Sequence=Displayed;
 CC Name=V1;
 CC IsoId=Q62059-2; Sequence=VSP_003087, VSP_003088;
 CC Name=V2;
 CC IsoId=Q62059-3; Sequence=VSP_003089;
 CC Name=V3;
 CC IsoId=Q62059-4; Sequence=VSP_003087, VSP_003090;
 CC -!- TISSUE SPECIFICITY: V2 is found only in brain.
 CC -!- DEVELOPMENTAL STAGE: Disappears after the cartilage development.
 CC -!- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
 CC -!- SIMILARITY: Contains 2 link domains.
 CC -!- SIMILARITY: Contains 2 EGF-like domains.
 CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
 CC -!- SIMILARITY: Contains 1 Sushi (SCR) domain.
 CC -!- SIMILARITY: Belongs to the aggrecan/versican proteoglycan family.
 CC -----
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 CC EMBL; D16263; BAA03796.1; -.
 CC EMBL; D28599; -; NOT_ANNOTATED_CDS.
 CC EMBL; D32040; BAA06802.1; -.
 CC EMBL; AK014525; BAB29411.2; -.
 CC HSSP; P01132; 1EPG.
 CC MGD; MGI:102889; Cspg2.
 CC InterPro; IPR000152; Asx_hydroxyl_S.
 CC InterPro; IPR000742; EGF_2.
 CC InterPro; IPR001881; EGF_Ca.
 CC InterPro; IPR006209; EGF-like.
 CC InterPro; IPR007110; Ig-like.
 CC InterPro; IPR003599; Ig.
 CC InterPro; IPR001304; Lectin_C.
 CC InterPro; IPR000538; Link.
 CC InterPro; IPR000436; Sushi_SCR_CCP.
 CC Pfam; PF00008; EGF; 2.
 CC Pfam; PF00047; ig; 1.
 CC Pfam; PF00059; lectin_c; 1.
 CC Pfam; PF00084; sushi; 1.
 CC Pfam; PF00193; Xlink; 2.
 CC PRINTS; PR01265; LINKMODULE.
 CC ProDom; PD000918; Link; 2.
 CC SMART; SM00032; CCP; 1.
 CC SMART; SM00034; CLECT; 1.
 CC SMART; SM00179; EGF_CA; 1.
 CC SMART; SM00409; IG; 1.
 CC SMART; SM00445; LINK; 2.
 CC PROSITE; PS00010; ASX_HYDROXYL; 1.
 CC PROSITE; PS00615; C_TYPE_LECTIN_1; 1.

RT tissues.";
 RL J. Biol. Chem. 270:3914-3918(1995).
 RN [7]
 RP SEQUENCE OF 3333-3396 FROM N.A. (ISOFORM VINT).
 RC TISSUE=Aortic smooth muscle;
 RX MEDLINE=99327053; PubMed=10397680;
 RA Lemire J.M., Braun K.R., Maurel P., Kaplan E.D., Schwartz S.M.,
 RA Wight T.N.;
 RT "Versican/PG-M isoforms in vascular smooth muscle cells.";
 RL Arterioscler. Thromb. Vasc. Biol. 19:1630-1639(1999).
 RN [8]
 RP PARTIAL SEQUENCE.
 RC TISSUE=Brain;
 RX MEDLINE=89174663; PubMed=2466833;
 RA Perides G., Lane W.S., Andrews D., Dahl D., Bignami A.;
 RT "Isolation and partial characterization of a glial
 RT hyaluronate-binding protein.";
 RL J. Biol. Chem. 264:5981-5987(1989).
 RN [9]
 RP TISSUE SPECIFICITY OF ISOFORMS.
 RX MEDLINE=96213482; PubMed=8627343;
 RA Paulus W., Baur I., Dours-Zimmermann M.T., Zimmermann D.R.;
 RT "Differential expression of versican isoforms in brain tumors.";
 RL J. Neuropathol. Exp. Neurol. 55:528-533(1996).
 CC -!- FUNCTION: May play a role in intercellular signaling and in
 CC connecting cells with the extracellular matrix. May take part in
 CC the regulation of cell motility, growth and differentiation. Binds
 CC hyaluronic acid.
 CC -!- SUBUNIT: Interacts with FBLN1 (By similarity).
 CC -!- SUBCELLULAR LOCATION: Secreted; extracellular matrix.
 CC -!- ALTERNATIVE PRODUCTS:
 CC Event=Alternative splicing; Named isoforms=5;
 CC Comment=Additional isoforms seem to exist;
 CC Name=V0;
 CC IsoId=P13611-1; Sequence=Displayed;
 CC Name=V1;
 CC IsoId=P13611-2; Sequence=VSP_003082, VSP_003083;
 CC Name=V2;
 CC IsoId=P13611-3; Sequence=VSP_003084;
 CC Name=V3;
 CC IsoId=P13611-4; Sequence=VSP_003082, VSP_003085;
 CC Name=Vint;
 CC IsoId=P13611-5; Sequence=VSP_003086;
 CC -!- TISSUE SPECIFICITY: Cerebral white matter. V0 and V1 is expressed
 CC in normal brain, gliomas, medulloblastomas, schwannomas,
 CC neurofibromas, and meningiomas; v2 is restricted to normal brain
 CC and gliomas; v3 is found in all these tissues except
 CC medulloblastomas.
 CC -!- DEVELOPMENTAL STAGE: Disappears after the cartilage development.
 CC -!- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
 CC -!- SIMILARITY: Contains 2 link domains.
 CC -!- SIMILARITY: Contains 2 EGF-like domains.
 CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
 CC -!- SIMILARITY: Contains 1 Sushi (SCR) domain.
 CC -!- SIMILARITY: Belongs to the aggrecan/versican proteoglycan family.
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 CC EMBL; X15998; CAA34128.1; -;
 CC EMBL; S52488; AAB24878.1; -;
 CC EMBL; U26555; AAA67565.1; -;
 CC EMBL; D32039; BAA06801.1; -;
 CC EMBL; J02814; AAA36437.1; -;
 CC EMBL; AF084545; AAD48545.1; -;
 CC PIR; S06014; A60979.
 CC HSSP; P01132; 1EGF.

DR Genew; HGNC:2464; CSPG2.
 DR MIM; 118661; -;
 DR GO; GO:0005578; C:extracellular matrix; TAS.
 DR GO; GO:0005540; F:hyaluronic acid binding; TAS.
 DR GO; GO:0008037; P:cell recognition; TAS.
 DR GO; GO:0007275; P:development; TAS.
 DR InterPro; IPR000152; Asx_hydroxyl_s.
 DR InterPro; IPR000742; EGF_2.
 DR InterPro; IPR001881; EGF_Ca.
 DR InterPro; IPR006209; EGF_like.
 DR InterPro; IPR007110; Ig_Like.
 DR InterPro; IPR003599; Ig.
 DR InterPro; IPR001304; Lectin_C.
 DR InterPro; IPR000538; Link.
 DR InterPro; IPR000436; Sushi_SCR_CCP.
 DR Pfam; PF00008; EGF; 2.
 DR Pfam; PF00059; lectin_c; 1.
 DR Pfam; PF00084; sushi; 1.
 DR Pfam; PF00193; xlink; 2.
 DR PRINTS; PR01265; LINKMODULE.
 DR ProDom; PD000918; Link; 2.
 DR SMART; SM00032; CCP; 1.
 DR SMART; SM00034; CLECT; 1.
 DR SMART; SM00179; EGF_CA; 1.
 DR SMART; SM00409; IG; 1.
 DR SMART; SM00445; LINK; 2.
 DR PROSITE; PS00010; ASX_HYDROXYL; 1.
 DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
 DR PROSITE; PS00441; C_TYPE_LLECTIN_2; 1.
 DR PROSITE; PS00022; EGF_1; 2.
 DR PROSITE; PS01186; EGF_2; 1.
 DR PROSITE; PS00026; EGF_3; 2.
 DR PROSITE; PS01187; EGF_CA; 1.
 DR PROSITE; PS00835; IG_LIKE; 1.
 DR PROSITE; PS01241; LINK; 2.
 KW Glycoprotein; Proteoglycan; Lectin; Extracellular matrix; Sushi;
 KW Signal; Repeat; EGF-like domain; Calcium; Immunoglobulin domain;
 KW Hyaluronic acid; Alternative splicing.
 FT SIGNAL 1 20 POTENTIAL.
 FT CHAIN 21 3396 VERSICAN CORE PROTEIN.
 FT DOMAIN 21 146 IG-LIKE V-TYPE.
 FT DOMAIN 167 244 LINK 1.
 FT DOMAIN 265 346 LINK 2.
 FT DOMAIN 348 1335 GAG-ALPHA
 (GLUCOSAMINOGLYCAN ATTACHMENT DOMAIN).
 FT DOMAIN 1336 3089 GAG-BETA.
 FT DOMAIN 3089 3125 EGF-LIKE 1.
 FT DOMAIN 3127 3163 EGF-LIKE 2, CALCIUM-BINDING (POTENTIAL).
 FT DOMAIN 3176 3290 C-TYPE LECTIN.
 FT DOMAIN 3295 3353 SUSHI.
 FT DISULFID 44 130 BY SIMILARITY.
 FT DISULFID 172 243 BY SIMILARITY.
 FT DISULFID 196 217 BY SIMILARITY.
 FT DISULFID 270 345 BY SIMILARITY.
 FT DISULFID 294 315 BY SIMILARITY.
 FT DISULFID 3093 3104 BY SIMILARITY.
 FT DISULFID 3098 3113 BY SIMILARITY.
 FT DISULFID 3115 3124 BY SIMILARITY.
 FT DISULFID 3131 3142 BY SIMILARITY.
 FT DISULFID 3136 3151 BY SIMILARITY.
 FT DISULFID 3153 3162 BY SIMILARITY.
 FT DISULFID 3169 3180 BY SIMILARITY.
 FT DISULFID 3197 3289 BY SIMILARITY.
 FT DISULFID 3265 3281 BY SIMILARITY.
 FT DISULFID 3296 3339 BY SIMILARITY.
 FT DISULFID 3325 3352 BY SIMILARITY.
 FT CARBOHYD 57 57 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 330 330 N-LINKED (GLCNAC. .).
 FT CARBOHYD 615 615 N-LINKED (GLCNAC. .) (POTENTIAL).
 Query Match 8.7%; Score 174; DB 1; Length 3396;
 Best Local Similarity 28.5%; Pred. No. 7.7e-06;
 Matches 47; Conservative 23; Mismatches 55; Indels 40; Gaps 8;

QY	38	QRPCYKVIYFHDTSRLNFEAEKACRRDGGQLVSIIESEDEQKLEKFIENLLPSDGDGDF- 96	DR	GO; GO:0016337; P:cell-cell adhesion; ISS.
Db	3177	QGQCYK--YF---AHRRTWDAARECRLOGAHLTILSHEEQMFVNRV-----GHDYQ 3224	DR	GO; GO:0042116; P:macrophage activation; ISS.
QY	97	WIGLRREEKQSNSTACQDLYAWTDGSIQFRNRYVDEP---SCGSEVCVVMYHQPSAP 152	DR	GO; GO:0006909; P:phagocytosis; ISS.
Db	3225	WIGL-----NDKMFHDFRWTGDTGTLQYENWRPNQDPSFFSAGEDCVVIWHENG-- 3274	DR	InterPro; IPR000152; Asx_hydroxyl_S.
QY	153	AGIGGPMYFQWDDRCNMKNFICKYS----DEKPAVPSREAEGE 193	DR	InterPro; IPR001881; EGF_Ca.
Db	3275	-----QWNDVPCNYHLTYCKGTGTVACGQPPVVENAKTFGK 3310	DR	InterPro; IPR006209; EGF_like.
DR	CD93_RAT	STANDARD; PRT; 643 AA.	DR	InterPro; IPR001304; Lectin_C.
AC	Q9ET61; Q9J1Z6;		DR	Pfam; PF00008; EGF; 4.
DT	28-FEB-2003 (Rel. 41, Created)		DR	Pfam; PF00059; lectin_c; 1.
DT	28-FEB-2003 (Rel. 41, Last sequence update)		DR	Pfam; PF00034; CLECT; 1.
DT	10-OCT-2003 (Rel. 42, Last annotation update)		DR	SMART; SM00179; EGF_CA; 3.
DE	Complement component C1q receptor precursor (Complement component 1, q		DR	PROSITE; PS00010; ASX_HYDROXYL; 3.
DE	subcomponent, receptor 1) (C1qRp) (C1qR(p)) (C1q/MBL/SPA receptor)		DR	PROSITE; PS00615; C_TYPE_LLECTIN_1; FALSE_NEG.
DE	(CD93 antigen) (Cell surface antigen AA4).		DR	PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
GN	CLQRI OR CD93 OR C1QRP.		DR	PROSITE; PS01186; EGF_2; 3.
OS	Rattus norvegicus (Rat).		DR	PROSITE; PS50026; EGF_3; 4.
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		DR	PROSITE; PS01187; EGF_CA; 3.
OC	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.		KW	Cell adhesion; Receptor; Repeat; Signal; Transmembrane;
OX	NCBI_TaxID=10116;		KW	EGF-like domain; Lectin; Glycoprotein.
RN	[1]		FT	SIGNAL 1 23
RP	SEQUENCE FROM N.A.		FT	CHAIN 24 643
RC	STRAIN=PVG; TISSUE=Natural killer cells;		FT	DOMAIN 24 571
RX	MEDLINE=20545218; PubMed=11093152;		FT	TRANSMEM 572 592
RA	Lovik G., Vaage J.T., Dissen E., Szpirer C., Ryan J.C., Rolstad B.;		FT	DOMAIN 593 643
RT	"Characterization and molecular cloning of rat C1qRp, a receptor on NK		FT	DOMAIN 31 173
RT	cells.";		FT	DOMAIN 257 298
RL	Eur. J. Immunol. 30:3355-3362(2000).		FT	DOMAIN 299 341
RN	[2]		FT	DOMAIN 342 381
RP	SEQUENCE FROM N.A.		FT	DOMAIN 382 423
RC	STRAIN=Wistar; TISSUE=Lung;		FT	DOMAIN 424 462
RX	MEDLINE=20507883; PubMed=10934210;		FT	DISULFID 261 272
RA	Dean Y.D., McGreal E.P., Akatsu H., Gasque P.;		FT	DISULFID 268 282
RT	"Molecular and cellular properties of the rat AA4 antigen, a C-type		FT	DISULFID 284 297
RT	lectin-like receptor with structural homology to thrombomodulin.";		FT	DISULFID 303 314
RL	J. Biol. Chem. 275:34382-34392(2000).		FT	DISULFID 308 325
CC	!- FUNCTION: Receptor (or element of a larger receptor complex) for		FT	DISULFID 327 340
CC	C1q, mannose-binding lectin (MBL2) and pulmonary surfactant		FT	DISULFID 346 355
CC	protein A (SPA). May mediate the enhancement of phagocytosis in		FT	DISULFID 351 364
CC	monocytes and macrophages upon interaction with soluble defense		FT	DISULFID 366 380
CC	collagens. May play a role in intercellular adhesion.		FT	DISULFID 386 397
CC	!- SUBCELLULAR LOCATION: Type I membrane protein.		FT	DISULFID 393 406
CC	!- TISSUE SPECIFICITY: Widely expressed. Highly expressed in lung and		FT	DISULFID 408 422
CC	heart. Expressed at lower level in brain, thymus, liver, spleen,		FT	DISULFID 428 437
CC	intestine, kidney, adrenal gland, muscle and testis. Expressed on		FT	DISULFID 433 446
CC	endothelial cells, platelets, undifferentiated monocytes and		FT	DISULFID 448 461
CC	circulating natural killer cells.		FT	DISULFID 322 322
CC	!- PTM: N- and O-glycosylated (By similarity).		FT	CARBOHYD 498 498
CC	!- SIMILARITY: Contains 1 C-type lectin family domain.		FT	CARBOHYD 417 417
CC	!- SIMILARITY: Contains 5 EGF-like domains.		FT	CONFLICT 417 417
CC	-----		SQ	SEQUENCE 643 AA; 68781 MW; 9AE4C933AD943DB6 CRC64;
CC	This SWISS-PROT entry is copyright. It is produced through a collaboration			
CC	between the Swiss Institute of Bioinformatics and the EMBL outstation -			
CC	the European Bioinformatics Institute. There are no restrictions on its			
CC	use by non-profit institutions as long as its content is in no way			
CC	modified and this statement is not removed. Usage by and for commercial			
CC	entities requires a license agreement (See http://www.isb-sib.ch/			
CC	or send an email to license@isb-sib.ch).			
CC	-----			
DR	EMBL; AF136537; AAG01572.1; -			
DR	EMBL; AF160978; AAF80402.1; -			
DR	HSSP; P35555; 1EMN.			
DR	GO; GO:0016021; C:integral to membrane; ISS.			
DR	GO; GO:0004872; F:receptor activity; ISS.			

RESULT 12
PGCV_CHICK

QY	14	VLLVGLRAATGRLLSGQP-----VCRGGTQRPCYKVIYFHDTSRLNFEAEKACRRDG 67	Query Match	8.6%;	Score 172.5;	DB 1;	Length 643;
Db	8	LLLLGL--LGQLWAGAAADSEAVVCEG---TACYTAHW-----GKLSAAEAQHRCNENG 56	Best Local Similarity	25.9%;	Pred. No. 1.1e-06;		
QY	68	GQLVSIIESEDEQKLEKFIENLL---PSD---GDFWIGLRREEKQSNSTACQDLYAWT 120	Matches	56;	Conservative	37;	Mismatches 74; Indels 49; Gaps 11;
Db	57	GNLATVKSEEEARHVQEALAQLLKTKAPSETKIGKFWIGLQREKKGKCTYHDLPMKGFWSV 116					
QY	121	DGSISQFRNRY-VDEPSCGSEVCVMY-----HQPSAPAGIGGPMYFQWDDRC--- 168					
Db	117	GGGEDTTSYSNWYKASKSSCISKRCVSLILDLSLKPSPHLP-----KWHESPCTGP 167					
QY	169	----NMKNNFICKYSDEKPAVPSREAEGETELTTP 200					
Db	168	DAFGNSIEGFLCKFNFKMCSPLALGGPGQLTYTTP 203					

ID PGCV CHICK STANDARD; PRT; 3562 AA.
AC Q90953; Q90945;
DT 01-NOV-1997 (Rel. 35, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Versican core protein precursor (large fibroblast proteoglycan)
DE (Chondroitin sulfate proteoglycan core protein 2) (PG-M).
GN CPBG2.
OS Gallus gallus (Chicken).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
OC Gallus.
OX NCBI_TaxID=9031;
RN [1]
RP SEQUENCE FROM N.A. (ISOFORMS V0 AND V1).
RC STRAIN=White leghorn; TISSUE=Limb bud;
RX MEDLINE=93300846; PubMed=8314802;
RA Shinomura T., Nishida Y., Ito K., Kimata K.;
RT "cDNA cloning of PG-M, a large chondroitin sulfate proteoglycan
RT expressed during chondrogenesis in chick limb buds. Alternative
RT spliced multi-forms of PG-M and their relationships to versican.";
RL J. Biol. Chem. 268:14461-14469(1993).
CC -!- FUNCTION: May play a role in intercellular signaling and in
CC connecting cells with the extracellular matrix. May take part in
CC the regulation of cell motility, growth and differentiation. Binds
CC hyaluronic acid.
CC -!- SUBCELLULAR LOCATION: Secreted; extracellular matrix.
CC -!- ALTERNATIVE PRODUCTS:
CC Event=Alternative splicing; Named isoforms=2;
CC Comment=Additional isoforms seem to exist;
CC Name=V0;
CC IsoId=Q90953-1; Sequence=Displayed;
CC Name=V1;
CC IsoId=Q90953-2; Sequence=VSP_003093;
CC -!- TISSUE SPECIFICITY: Prechondrogenic condensation area of
CC developing limb buds.
CC -!- DEVELOPMENTAL STAGE: Disappears after the cartilage development
CC (By similarity).
CC -!- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
CC -!- SIMILARITY: Contains 2 link domains.
CC -!- SIMILARITY: Contains 2 EGF-like domains.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC -!- SIMILARITY: Contains 1 Sushi (SCR) domain.
CC -----
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CC or send an email to license@isb-sib.ch).
CC -----
DR EMBL; X60226; CAA42787.1; -.
DR EMBL; D13542; BAA02742.1; -.
DR PIR; A47171; A47171.
DR HSSP; P00740; 1EDM.
DR InterPro; IPR000152; Asx_hydroxyl_s.
DR InterPro; IPR000742; EGF_2.
DR InterPro; IPR001881; EGF_Ca.
DR InterPro; IPR006209; EGF_like.
DR InterPro; IPR007110; Ig_Like.
DR InterPro; IPR003599; Ig.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR000538; Link.
DR InterPro; IPR000436; Sushi_SCR_CCP.
DR Pfam; PF00008; EGF; 2.
DR Pfam; PF00047; ig; 1.
DR Pfam; PF00059; lectin_c; 1.
DR Pfam; PF00084; sushi; 1.
DR Pfam; PF00193; Xlink; 2.
DR PRINTS; PR01265; LINKMODULE.
DR ProDom; PD000918; Link; 2.
DR SMART; SM00032; CCP; 1.

DR SMART; SM00034; CLECT; 1.
DR SMART; SM00179; EGF_CA; 1.
DR SMART; SM00409; IG; 1.
DR SMART; SM00445; LINK; 2.
DR PROSITE; PS00010; ASX_HYDROXYL; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
DR PROSITE; PS00041; C_TYPE_LLECTIN_2; 1.
DR PROSITE; PS00022; EGF_1; 2.
DR PROSITE; PS01186; EGF_2; 1.
DR PROSITE; PS00026; EGF_3; 2.
DR PROSITE; PS01187; EGF_CA; 1.
DR PROSITE; PS00835; IG_LIKE; 1.
DR PROSITE; PS01241; LINK; 2.
KW Glycoprotein; Proteoglycan; Lectin; Extracellular matrix; Sushi;
KW Signal; Repeat; EGF-like domain; Calcium; Immunoglobulin domain;
KW Hyaluronic acid; Alternative splicing.
FT SIGNAL 1 26
FT CHAIN 27 3562
FT DOMAIN 27 143
FT DOMAIN 166 243
FT DOMAIN 264 345
FT DOMAIN 3254 3290
FT DOMAIN 3292 3328
FT DOMAIN 3341 3455
FT DOMAIN 3460 3518
FT DISULFID 44 129
FT DISULFID 171 242
FT DISULFID 195 216
FT DISULFID 269 344
FT DISULFID 293 314
FT DISULFID 3258 3269
FT DISULFID 3263 3278
FT DISULFID 3280 3289
FT DISULFID 3296 3307
FT DISULFID 3301 3316
FT DISULFID 3318 3327
FT DISULFID 3334 3345
FT DISULFID 3362 3454
FT DISULFID 3430 3446
FT DISULFID 3461 3504
FT DISULFID 3490 3517
FT CARBOHYD 163 163
FT CARBOHYD 235 235
FT CARBOHYD 329 329
FT CARBOHYD 529 529
FT CARBOHYD 709 709
FT CARBOHYD 948 948
FT CARBOHYD 1409 1409
FT CARBOHYD 1479 1479
FT CARBOHYD 1523 1523
FT CARBOHYD 1530 1530
FT CARBOHYD 1625 1625
FT CARBOHYD 1751 1751
FT CARBOHYD 1988 1988
FT CARBOHYD 2088 2088
FT CARBOHYD 2089 2089
FT CARBOHYD 2507 2507
FT CARBOHYD 2642 2642
FT CARBOHYD 2679 2679
FT CARBOHYD 2748 2748
FT CARBOHYD 2762 2762
FT CARBOHYD 3069 3069
FT CARBOHYD 3194 3194
FT CARBOHYD 3232 3232
FT CARBOHYD 3545 3545
FT VARSPLIC 485 1411
FT Missing (in isoform V1).
FT /FTid=VSP_003093.
SQ SEQUENCE 3562 AA; 388078 MW; 9BC565E88C1602D2 CRC64;

Query Match 8.6%; Score 171; DB 1; Length 3562;
Best Local Similarity 28.5%; Pred. No. 1.5e-05;
Matches 47; Conservative 23; Mismatches 55; Indels 40; Gaps 8;

QY 38 QRPCYKVIYFHDTSRLNFEBAKEACRRDGGQLVSISEDEQKLEKFIENLLPSDGDGDF- 96
| | | | : : : : | | | | : : : : | | : : : :
Db 3342 QGQCYK--YF---AHRRTWDTARECRRLQGAHLTSLSHSEBQVFNRI-----GHDIQ 3389
| | | | : : : : | | | | : : : : | | : : : :
QY 97 WTGLRRREEKQSNSTACQDLYAWTDGSIQFRNWNVYDEP-----SCGSEVCVVMYHQPSAP 152
| | | | : : : : | | | | : : : : | | : : : :
Db 3390 WTGL-----NDKMFERDFRWTGSPLOQYENWRPNQDPSF\$SAGEDCVVLIWHENG-- 3439
| | | | : : : : | | | | : : : : | | : : : :
QY 153 AGIGGPPYMFQWDDRCNNKNNFICKYS-----DEKPAVPSREAEGE 193
| | | | : : : : | | | | : : : : | | : : : :
Db 3440 -----QWNDVPCNYHLTYTCKKGTACGQPPVVENAKTFGK 3475
| | | | : : : : | | | | : : : : | | : : : :

RESULT 13
PGCA_BOVIN
ID PGCA_BOVIN STANDARD; PRT; 2364 AA.
AC P13608; P79117; Q28159;
DT 01-JAN-1990 (Rel. 13, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 15-MAR-2004 (Rel. 43, Last annotation update)
DE Aggrecan core protein precursor (Cartilage-specific proteoglycan core
DE protein) (CSPCP).
GN AGC1.
OS Bos taurus (Bovine).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovoidea;
OC Bovidae; Bovinae; Bos.
CX NCBI_TaxID=9913;
RN [1]
RP SEQUENCE FROM N.A.
RA Hering T.M., Kollar J., Huynh T.D.;
RL Submitted (SEP-1996) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE OF 563-1056 FROM N.A.
RX MEDLINE=89380219; PubMed=2528543;
RA Antonsson P., Heinegaard D., Oldberg A.;
RT "The keratan sulfate-enriched region of bovine cartilage proteoglycan
RT consists of a consecutively repeated hexapeptide motif.";
RL J. Biol. Chem. 264:16170-16173(1989).
RN [3]
RP SEQUENCE OF 1609-2113 AND 2151-2364 FROM N.A.
RX MEDLINE=87270630; PubMed=3111460;
RA Oldberg A., Antonsson P., Heinegaard D.;
RT "The partial amino acid sequence of bovine cartilage proteoglycan,
RT deduced from a cDNA clone, contains numerous Ser-Gly sequences
RT arranged in homologous repeats.";
RL Biochem. J. 243:255-259(1987).
RN [4]
RP SEQUENCE OF 2114-2150 FROM N.A.
RC TISSUE=Cartilage;
RX MEDLINE=93352525; PubMed=8349621;
RA Fueleop C., Walcz E., Vallyon M., Glant T.T.;
RT "Expression of alternatively spliced epidermal growth factor-like
RT domains in aggrecans of different species. Evidence for a novel
RT module.";
RL J. Biol. Chem. 268:17377-17383(1993).
RN [5]
RP PARTIAL SEQUENCE.
RX MEDLINE=85027710; PubMed=6489519;
RA Perin J.-P., Bonnet F., Jolles J., Jolles P.;
RT "Sequence data concerning the protein core of the cartilage
RT proteoglycan monomers. Characterization of a sequence allowing the
RT synthesis of an oligonucleotide probe.";
RL FEBS Lett. 176:37-42(1984).
RN [6]
RP PARTIAL SEQUENCE.
RX MEDLINE=87005253; PubMed=3530809;
RA Perin J.-P., Bonnet F., Jolles P.;
RT "Structural relationship between link proteins and proteoglycan
RT monomers.";
RL FEBS Lett. 206:73-77(1986).
CC -!- FUNCTION: This proteoglycan is a major component of extracellular
CC matrix of cartilaginous tissues. A major function of this protein

CC is to resist compression in cartilage. It binds avidly to
CC hyaluronic acid via an amino-terminal globular region. May play a
CC regulatory role in the matrix assembly of the cartilage.
CC -!- SUBCELLULAR LOCATION: Secreted; extracellular matrix (By
CC similarity).
CC ALTERNATIVE PRODUCTS:
CC Event=Alternative splicing; Named isoforms=2;
CC Name=1;
CC IsoId=P13608-1; Sequence=Displayed;
CC Name=2;
CC IsoId=P13608-2; Sequence=VSP_003072;
CC DOMAIN: Two globular domains, G1 and G2, comprise the amino
CC terminus of the proteoglycan, while another globular region, G3,
CC makes up the C-terminus. G1 contains link domains and thus
CC consists of three disulfide-bonded loop structures designated as
CC the A, B, B' motifs. G2 is similar to G1. The keratan sulfate (KS)
CC and the chondroitin sulfate (CS) attachment domains lie between G2
CC and G3.
CC -!- PTM: CONTAINS MOSTLY CHONDROITIN SULFATE, BUT ALSO N-LINKED AND O-
CC LINKED (ABOUT 40) OLIGOSACCHARIDES.
CC -!- PTM: THE KERATAN SULFATE CONTENTS DIFFER CONSIDERABLY BETWEEN
CC ADULT AND FETAL BOVINE PROTEOGLYCANS.
CC -!- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
CC -!- SIMILARITY: Contains 4 link domains.
CC -!- SIMILARITY: Contains 1 EGF-like domain.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC -!- SIMILARITY: Contains 1 Sushi (SCR) domain.
CC -!- SIMILARITY: Belongs to the aggrecan/versican proteoglycan family.
CC -----
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CC -----
CC EMBL; U76615; AAB38524.1; -;
CC EMBL; L07053; -; NOT_ANNOTATED_CDS.
CC PIR; A34234; A39808.
CC PIR; T42630; T42630.
CC HSSP; P08709; 1BF9.
CC InterPro; IPR002353; AntifreezeII.
CC InterPro; IPR000152; Asx hydroxyl_s.
CC InterPro; IPR000742; EGF_2.
CC InterPro; IPR001881; EGF_Ca.
CC InterPro; IPR006209; EGF_like.
CC InterPro; IPR007110; Ig-like.
CC InterPro; IPR003006; Ig_MHC.
CC InterPro; IPR001304; Lectin_C.
CC InterPro; IPR000538; Link.
CC InterPro; IPR003324; SGXSG.
CC InterPro; IPR000436; Sushi_SCR_CCP.
CC Pfam; PF00008; EGF; 1.
CC Pfam; PF00047; Ig; 1.
CC Pfam; PF00059; lectin_c; 1.
CC Pfam; PF02339; SGXSG; 61.
CC Pfam; PF00084; sushi; 1.
CC Pfam; PF00193; Xlink; 4.
CC PRINTS; PR00356; ANTIFREEZEII.
CC PRINTS; PR01265; LINKMODULE.
CC ProDom; PD000918; Link; 4.
CC SMART; SM00032; CCP; 1.
CC SMART; SM00034; CLECT; 1.
CC SMART; SM00179; EGF_CA; 1.
CC SMART; SM00445; LINK; 4.
CC PROSITE; PS00010; ASX_HYDROXYL; 1.
CC PROSITE; PS00615; C_TYPE_LECTIN_1; 1.
CC PROSITE; PS50041; C_TYPE_LECTIN_2; 1.
CC PROSITE; PS00022; EGF_1; 1.
CC PROSITE; PS50026; EGF_3; 1.
CC PROSITE; PS01187; EGF_CA; 1.
CC PROSITE; PS50835; IG_LIKE; 1.


```
DR PROSITE; PS00290; IG MHC; FALSE_NEG.
DR PROSITE; PS01241; LINK; 4.
KW Glycoprotein; Proteoglycan; Lectin; Signal; Sushi; EGF-like domain;
KW Calcium; Alternative splicing; Repeat; Immunoglobulin domain.
FT SIGNAL 1 16 POTENTIAL.
FT CHAIN 17 2364 AGGREGAN CORE PROTEIN.
FT DOMAIN 25 147 IG-LIKE V-TYPE.
FT DOMAIN 170 247 LINK 1.
FT DOMAIN 268 349 LINK 2.
FT DOMAIN 504 581 LINK 3.
FT DOMAIN 602 683 LINK 4.
FT DOMAIN 774 907 23 X 6 AA APPROXIMATE TANDEM REPEATS OF
FT E-[EK]-P-F-P-S.
FT DOMAIN 1433 2112 CS-2.
FT DOMAIN 2113 2149 EGF-LIKE, CALCIUM-BINDING (POTENTIAL).
FT DOMAIN 2114 2364 G3.
FT DOMAIN 2161 2276 C-TYPE LECTIN.
FT DOMAIN 2280 2338 SUSHI.
FT DISULFID 51 133 BY SIMILARITY.
FT DISULFID 175 246 BY SIMILARITY.
FT DISULFID 199 220 BY SIMILARITY.
FT DISULFID 273 348 BY SIMILARITY.
FT DISULFID 297 318 BY SIMILARITY.
FT DISULFID 509 580 BY SIMILARITY.
FT DISULFID 533 554 BY SIMILARITY.
FT DISULFID 607 682 BY SIMILARITY.
FT DISULFID 631 652 BY SIMILARITY.
FT DISULFID 2117 2128 BY SIMILARITY.
FT DISULFID 2182 2274 BY SIMILARITY.
FT DISULFID 2250 2266 BY SIMILARITY.
FT DISULFID 2281 2324 BY SIMILARITY.
FT DISULFID 2310 2337 BY SIMILARITY.
FT CARBOHYD 126 126 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 239 239 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 333 333 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 387 387 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 611 611 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 667 667 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT VARSPLIC 2114 2150 Missing (in isoform 2).
FT /FTID=VSP_003072.
SQ SEQUENCE 2364 AA; 246359 MW; 6F83763420C3D4C CRC64;

Query Match 7.9%; Score 158.5; DB 1; Length 2364;
Best Local Similarity 26.8%; Pred. No. 9.7e-05;
Matches 48; Conservative 29; Mismatches 59; Indels 43; Gaps 10;

QY 30 QPVCRRG---TORPCYKVIYFHDTSRRLLNFEAEKACRRDGGQLVSESEDEQKLEKFI 86
Db 2151 QKLCEEGWTKFQGHCHYR--HFPD---RATWVDAESQCRKQKQSHLSSIVTPEEQ---EFV 2201
QY 87 ENLLPSDGDFF-WIGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVDEP---SCGSEV 141
Db 2202 NN---NAQDYQWIGL-----NDKTIEGDFRWSGDGSHLQFENWRPNQPDNFFATGEDC 2250
QY 142 CVVMYHQPSAPAGIGGPFYMFQWDDRCNMKNFKICKYS----DEKPAVPSREAGEETE 196
Db 2251 VVMWHEKG-----EWNDVPCNYQLPFTCKKGTACGEPVVEHARIFGQKGD 2298

RESULT 14
PGCA_HUMAN
ID PGCA_HUMAN STANDARD; PRT; 2415 AA.
AC P16112; Q13650;
DT 01-APR-1990 (Rel. 14, Created)
DT 01-AUG-1992 (Rel. 23, Last sequence update)
DT 15-MAR-2004 (Rel. 43, Last annotation update)
DE Aggrecan core protein precursor (Cartilage-specific proteoglycan core
GN protein) (CSPCP) (Chondroitin sulfate proteoglycan core protein 1).
OS AGC1 OR CSPG1.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
```

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RN
RP SEQUENCE FROM N.A. (ISOFORM 3).
RC MEDLINE=91093289; PubMed=1985970;
RX Doege K.J., Sasaki M., Kimura T., Yamada Y.;
RA "Complete coding sequence and deduced primary structure of the human
RT cartilage large aggregating proteoglycan, aggrecan. Human-specific
RT repeats, and additional alternatively spliced forms.";
RL J. Biol. Chem. 266:894-902(1991).
RN [2]
RP SEQUENCE OF 1778-2415 FROM N.A. (ISOFORM 2).
RC TISSUE=Chondrocytes;
RA Dudhia J., Hardingham T.E.;
RL Submitted (JAN-1990) to the EMBL/GenBank/DBJ databases.
RN [3]
RP SEQUENCE OF 1936-2415 FROM N.A. (ISOFORM 1).
RX MEDLINE=89380154; PubMed=2789216;
RA Baldwin C.T., Reginato A.M., Prockop D.J.;
RT "A new epidermal growth factor-like domain in the human core protein
RT for the large cartilage-specific proteoglycan. Evidence for
RT alternative splicing of the domain.";
RL J. Biol. Chem. 264:15747-15750(1989).
RN [4]
RP SEQUENCE OF 764-864 FROM N.A.
RC TISSUE=Blood;
RX MEDLINE=95128522; PubMed=7827755;
RA Barry F.P., Neame P.J., Sasse J., Pearson D.;
RT "Length variation in the keratan sulfate domain of mammalian
RT aggrecan.";
RL Matrix Biol. 14:323-328(1994).
CC -!- FUNCTION: THIS PROTEOGLYCAN IS A MAJOR COMPONENT OF EXTRACELLULAR
CC MATRIX OF CARTILAGINOUS TISSUES. A MAJOR FUNCTION OF THIS PROTEIN
CC IS TO RESIST COMPRESSION IN CARTILAGE. IT BINDS AVIDLY TO
CC HYALURONIC ACID VIA AN AMINO-TERMINAL GLOBULAR REGION.
CC -!- SUBUNIT: Interacts with FBLN1 (By similarity).
CC -!- SUBCELLULAR LOCATION: Secreted; extracellular matrix (By
CC similarity).
CC -!- ALTERNATIVE PRODUCTS:
CC Event=Alternative splicing; Named isoforms=3;
CC Comment=Additional isoforms seem to exist;
CC Name=1;
CC IsoId=P16112-1; Sequence=Displayed;
CC Name=2;
CC IsoId=P16112-2; Sequence=VSP_003074;
CC Name=3;
CC IsoId=P16112-3; Sequence=VSP_003074, VSP_003075;
CC -!- DOMAIN: Two globular domains, G1 and G2, comprise the amino
CC terminus of the proteoglycan, while another globular region, G3,
CC makes up the COOH terminus. G1 contains link domains and thus
CC consists of three disulfide-bonded loop structures designated as
CC the A, B, B' motifs. G2 is similar to G1. The keratan sulfate (KS)
CC and the chondroitin sulfate (CS) attachment domains lie between G2
CC and G3.
CC -!- PTM: Contains mostly chondroitin sulfate, but also keratan sulfate
CC chains, N-linked and O-linked oligosaccharides.
CC -!- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
CC -!- SIMILARITY: Contains 4 link domains.
CC -!- SIMILARITY: Contains 1 EGF-like domain.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC -!- SIMILARITY: Contains 1 Sushi (SCR) domain.
CC -!- SIMILARITY: Belongs to the aggrecan/versican proteoglycan family.
CC -----
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CC or send an email to license@isb-sib.ch).
CC -----
CC EMBL; M55172; AAA62824.1; -.
CC EMBL; J05062; AAA35726.1; -.
CC EMBL; X17406; CAA35463.1; -.
DR
DR
```


RA Deloukas P., Matthews L.H., Ashurst J., Burton J., Gilbert J.G.R.,
RA Jones M., Stavrides G., Almeida J.P., Babbage A.K., Baggeley C.L.,
RA Bailey J., Barlow K.F., Bates K.N., Beard L.M., Beare D.M.,
RA Beasley O.P., Bird C.P., Blakey S.E., Bridgeman A.M., Brown A.J.,
RA Buck D., Burrill W.D., Butler A.P., Carder C., Carter N.P.,
RA Chapman J.C., Clamp M., Clark G., Clark L.N., Clark S.Y., Clee C.M.,
RA Clegg S., Cobley V.E., Collier R.E., Connor R.E., Corby N.R.,
RA Coulson A., Coville G.J., Deadman R., Dhami P.D., Dunn M.,
RA Ellington A.G., Frankland J.A., Fraser A., French L., Garner P.,
RA Graham D.V., Griffiths C., Griffiths M.N.D., Gwilliam R., Hall R.E.,
RA Hammond S., Harley J.L., Heath P.D., Ho S., Holden J.L., Howden P.J.,
RA Huckle E., Hunt A.R., Hunt S.E., Jekosch K., Johnson C.M., Johnson D.,
RA Kay M.P., Kimberley A.M., King A., Knights A., Laird G.K., Lawlor S.,
RA Leivaeslao M.H., Leversha M.A., Lloyd C., Lloyd D.M., Lovell J.D.,
RA Marsh V.L., Martin S.L., McConnachie L.J., McLeay K., McMurray A.A.,
RA Milne S.A., Mistry D., Moore M.J.F., Mullikin J.C., Nickerson T.,
RA Oliver K., Parker A., Patel R., Pearce T.A.V., Peck A.I.,
RA Phillimore B.J.C.T., Prathalingam S.R., Plumb R.W., Ramsay H.,
RA Rice C.M., Ross M.T., Scott C.E., Sehra H.K., Shownkeen R., Sims S.,
RA Skuce C.D., Smith M.L., Soderlund C., Steward C.A., Sulston J.E.,
RA Swann R.M., Sycamore N., Taylor R., Tee L., Thomas D.W., Thorpe A.,
RA Tracey A., Tromans A.C., Vaudin M., Wall M., Wallis J.M.,
RA Whitehead S.L., Whittaker P., Willey D.L., Williams L., Williams S.A.,
RA Wilming L., Wray P.W., Hubbard T., Durbin R.M., Bentley D.R., Beck S.,
RA Rogers J.;
RT "The DNA sequence and comparative analysis of human chromosome 20.";
RL Nature 414:865-871(2001).
RN [4]
RP SEQUENCE FROM N.A.
RC TISSUE=Leukocyte;
RX MEDLINE=22388257; PubMed=12477932;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shennan C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smalusz D.E.,
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length
RT human and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [5]
RP CHARACTERIZATION.
RX MEDLINE=21990337; PubMed=11994479;
RA McGreal E.P., Ikewaki N., Akatsu H., Morgan B.P., Gasque P.;
RT "Human C1qR is identical with CD93 and the mNI-11 antigen but does
RT not bind C1q.";
RL J. Immunol. 168:5222-5232(2002).
RN [6]
RP O-GLYCOSYLATION.
RX MEDLINE=99192777; PubMed=10092817;
RA Nepomuceno R.R., Ruiz S., Park M., Tenner A.J.;
RT "C1qR is a heavily O-glycosylated cell surface protein involved in
RT the regulation of phagocytic activity.";
RL J. Immunol. 162:3583-3589(1999).
CC -!- FUNCTION: Receptor (or element of a larger receptor complex) for
CC C1q, mannose-binding lectin (MBL2) and pulmonary surfactant
CC protein A (SPA). May mediate the enhancement of phagocytosis in
CC monocytes and macrophages upon interaction with soluble defense
CC collagens. May play a role in intercellular adhesion.
CC -!- SUBCELLULAR LOCATION: Type I membrane protein.
CC -!- TISSUE SPECIFICITY: Highly expressed in endothelial cells,
CC platelets, cells of myeloid origin, such as monocytes and

CC neutrophils. Not expressed in cells of lymphoid origin.
CC -!- PTM: N- and O-glycosylated.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC -!- SIMILARITY: Contains 5 EGF-like domains.
CC -!- CAUTION: Has been sometimes referred to as a collectin receptor.
CC -!- CAUTION: According to Ref.5, C1q is not a ligand for C1QR1.
CC -!- DATABASE: NAME=PROW; NOTE=PROW 3:1-6(2001);
CC WWW="http://www.ncbi.nlm.nih.gov/prow/guide/467246456_g.htm".
CC -----
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CC -----
CC EMBL; U94333; AAB53110.1; -;
CC EMBL; AL118508; CAC00597.1; -;
CC EMBL; BC028075; AAH28075.1; -;
CC HSSP; P35555; IEMN.
CC Genew; HGNC:15855; C1QR1.
CC MIM; 120577; -;
CC GO; GO:0016021; C:integral to membrane; IC.
CC GO; GO:0004872; F:receptor activity; NAS.
CC GO; GO:0016337; P:cell-cell adhesion; IDA.
CC GO; GO:0042116; P:macrophage activation; NAS.
CC GO; GO:0006909; P:phagocytosis; NAS.
CC InterPro; IPR001152; ASX_hydroxyl_S.
CC InterPro; IPR011881; EGF_Ca.
CC InterPro; IPR006209; EGF-like.
CC InterPro; IPR01304; Lectin_C.
CC Pfam; PF00008; EGF; 5.
CC Pfam; PF00059; lectin_c; 1.
CC SMART; SM00034; CLECT; 1.
CC SMART; SM00179; EGF_CA; 3.
CC PROSITE; PS00010; ASX_HYDROXYL; 3.
CC PROSITE; PS00615; C_TYPE_LLECTIN_1; FALSE_NEG.
CC PROSITE; PS00041; C_TYPE_LLECTIN_2; 1.
CC PROSITE; PS01186; EGF_2; 3.
CC PROSITE; PS00026; EGF_3; 3.
CC PROSITE; PS01187; EGF_CA; 3.
CC Cell adhesion; Receptor; Repeat; Signal; Transmembrane;
CC EGF-like domain; Lectin; Glycoprotein; Polymorphism.
FT SIGNAL 1 21
FT CHAIN 22 652 COMPLEMENT COMPONENT C1Q RECEPTOR.
FT DOMAIN 24 580 EXTRACELLULAR (POTENTIAL).
FT TRANSMEM 581 601 POTENTIAL.
FT DOMAIN 602 652 CYTOPLASMIC (POTENTIAL).
FT DOMAIN 32 174 C-TYPE LECTIN.
FT DOMAIN 260 301 EGF-LIKE 1.
FT DOMAIN 302 344 EGF-LIKE 2.
FT DOMAIN 345 384 EGF-LIKE 3. CALCIUM-BINDING (POTENTIAL).
FT DOMAIN 385 426 EGF-LIKE 4. CALCIUM-BINDING (POTENTIAL).
FT DOMAIN 427 468 EGF-LIKE 5. CALCIUM-BINDING (POTENTIAL).
FT DOMAIN 594 601 POLY-LEU.
FT DISULFID 264 275 BY SIMILARITY.
FT DISULFID 271 285 BY SIMILARITY.
FT DISULFID 287 300 BY SIMILARITY.
FT DISULFID 306 317 BY SIMILARITY.
FT DISULFID 311 328 BY SIMILARITY.
FT DISULFID 330 343 BY SIMILARITY.
FT DISULFID 349 358 BY SIMILARITY.
FT DISULFID 354 367 BY SIMILARITY.
FT DISULFID 369 383 BY SIMILARITY.
FT DISULFID 389 400 BY SIMILARITY.
FT DISULFID 396 409 BY SIMILARITY.
FT DISULFID 411 425 BY SIMILARITY.
FT DISULFID 431 443 BY SIMILARITY.
FT DISULFID 439 452 BY SIMILARITY.
FT DISULFID 454 467 BY SIMILARITY.
FT CARBOHYD 325 325 N-LINKED (GLCNAC. .) (POTENTIAL).
FT VARIANT 318 318 V -> A.

```
FT CONFLICT 22 22 /FTid=VAR_013573.
FT CONFLICT 36 36 T -> V (IN REF. 1; AA SEQUENCE).
FT CONFLICT 38 36 C -> T (IN REF. 1; AA SEQUENCE).
FT CONFLICT 39 39 TA -> RI (IN REF. 1; AA SEQUENCE).
FT CONFLICT 155 155 S -> N (IN REF. 1).
FT CONFLICT 186 186 G -> A (IN REF. 1; AA SEQUENCE).
FT CONFLICT 492 492 S -> A (IN REF. 1; AA SEQUENCE).
FT CONFLICT 496 496 R -> Q (IN REF. 1; AA SEQUENCE).
FT CONFLICT 504 504 R -> G (IN REF. 1; AA SEQUENCE).
FT CONFLICT 541 541 P -> S (IN REF. 1).
SQ SEQUENCE 652 AA; 68560 MW; EECA0FEAC55FCAC2 CRC64;

Query Match 7.9%; Score 157.5; DB 1; Length 652;
Best Local Similarity 25.2%; Pred. No. 2e-05;
Matches 53; Conservative 40; Mismatches 84; Indels 33; Gaps 9;

QY 10 VLLAVLLVGLRAATGRLLSGOPVCRGGTQPCYKVIYFHDTSRRLNFEEAEACRRDGGQ 69
Db :||:| : : : : : : : : : : : : : : : : : : : : : : : : : :
9 LLLLLLLTQPGAGTGADTEA-VVCGV---TACYTA-----HSGKLSAAEAQNHCNQNGN 59

QY 70 LVSTIESEDEQKLIKFIENLLPSD-----GDFWIGLRREEKQSNSTACQDLYAWT-D 121
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : :
60 LATVKSKEEAQHVQVLAQLLRREAAALTARMSKFWIGLQREKKGKCLDPSLPKGFVWVG 119

QY 122 GSISQFRNMYVD-EPSCGSEVCVVM---YHQPSAPAGIGCPYMFQWDDRCNNKNN---- 173
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : :
120 GEDTPYSNWHKELRNSCISKVCVSLLDLSQPLLPRLP-----KWSEGCGSPGSPGSN 174

QY 174 ---FICKYSDEKPAVPSREAEGETELTTP 200
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : :
175 IEGFVCKFSFKGMCRLALGGPGQVTTYTP 204
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Search completed: September 9, 2004, 22:21:45
Job time : 14 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
OM protein - protein search, using sw model
Run on: September 9, 2004, 22:19:06 ; Search time 43 Seconds
(without alignments)
2744.275 Million cell updates/sec

Title: US-09-887-855-2
Perfect score: 2000
Sequence: 1 MRPGTALQAVLLAVLLVGLR.....PDQMGRSKESGWVENEIYGY 374

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1017041 seqs, 315518202 residues

Total number of hits satisfying chosen parameters: 1017041

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : SPTREMBL 25:*
1: sp_archea:*
2: sp_bacteria:*
3: sp_fungi:*
4: sp_human:*
5: sp_invertebrate:*
6: sp_mammal:*
7: sp_mhc:*
8: sp_organelle:*
9: sp_phage:*
10: sp_plant:*
11: sp_rodent:*
12: sp_virus:*
13: sp_vertebrate:*
14: sp_unclassified:*
15: sp_rvirus:*
16: sp_bacteriap:*
17: sp_archeap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Match	Score	Length	DB	ID	Description
1	2000	100.0	374	4	Q96NF3	Q96nf3 homo sapien
2	1997	99.9	374	4	Q8TAY8	Q8tay8 homo sapien
3	1996	99.8	374	4	Q96NC5	Q96nc5 homo sapien
4	1697.5	84.9	374	11	Q9Z209	Q9z209 cricetulus
5	862.5	43.1	211	11	Q8C351	Q8c351 mus musculus
6	652	32.6	292	11	Q8BVU2	Q8bvu2 mus musculus
7	646	32.3	246	11	Q8BMI7	Q8bmi7 mus musculus
8	576	28.8	232	4	Q7Z799	Q7z799 homo sapien
9	513	25.7	236	4	Q7Z798	Q7z798 homo sapien
10	500	25.0	236	4	Q7Z7A0	Q7z7a0 homo sapien
11	185	9.2	1290	13	Q9W6E1	Q9w6e1 gallus galli
12	178.5	8.9	1456	11	Q61830	Q61830 mus musculus
13	177.5	8.9	1348	5	Q25199	Q25199 hydra atten
14	176.5	8.8	1479	4	Q9Y5P9	Q9y5p9 homo sapien
15	176.5	8.8	1479	4	Q9UBG0	Q9ubg0 homo sapien
16	170.5	8.5	1479	11	Q64449	Q64449 mus musculus

17	169	8.5	217	11	Q8C4F8	Q8c4f8 mus musculu
18	165.5	8.3	742	11	Q8K4Q8	Q8k4q8 mus musculu
19	165.5	8.3	742	11	Q8C979	Q8c979 mus musculu
20	161.5	8.1	134	5	Q9XYX3	Q9xyx3 hydra magni
21	159.5	8.0	742	11	Q8VIF6	Q8vif6 mus musculu
22	159	8.0	1031	5	Q8WSX2	Q8wsx2 dugesia tig
23	158	7.9	142	11	Q8CJ86	Q8cj86 mus musculu
24	158	7.9	142	11	Q8BHK7	Q8bhk7 mus musculu
25	158	7.9	295	11	Q91ZW4	Q91zw4 mus musculu
26	158	7.9	311	11	Q9D8V4	Q9d8v4 mus musculu
27	158	7.9	325	11	Q91ZX0	Q91zx0 mus musculu
28	157.5	7.9	358	6	Q8HY04	Q8hy04 papio hamad
29	157.5	7.9	381	6	Q8SQB2	Q8sqb2 macaca mula
30	157.5	7.9	652	4	Q8IXK1	Q8ixk1 homo sapien
31	157	7.8	158	13	Q90WI7	Q90wi7 bungarus fa
32	156	7.8	162	5	Q25459	Q25459 megabalarus
33	156	7.8	323	11	Q8CJ91	Q8cj91 mus musculu
34	156	7.8	339	6	Q95244	Q95244 sus scrofa
35	155	7.8	293	11	Q8BGZ0	Q8bgz0 mus musculu
36	155	7.8	323	11	Q8CJ94	Q8cj94 mus musculu
37	155	7.8	323	11	Q8CJ93	Q8cj93 mus musculu
38	155	7.8	323	11	Q8CJ88	Q8cj88 mus musculu
39	155	7.8	379	11	Q7TMA7	Q7tma7 mus musculu
40	155	7.8	381	6	Q95LA8	Q95la8 macaca mula
41	155	7.8	473	11	Q7TSP9	Q7tsp9 mus musculu
42	155	7.8	477	11	Q7TSQ7	Q7tsq7 mus musculu
43	155	7.8	504	11	Q7TSQ0	Q7tsq0 mus musculu
44	155	7.8	534	11	Q7TSQ1	Q7tsq1 mus musculu
45	155	7.8	1152	13	Q90WM2	Q90wm2 xenopus lae

ALIGNMENTS

RESULT 1

Q96NF3 PRELIMINARY; PRT; 374 AA.
AC Q96NF3;
DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Hypothetical protein FLJ30977.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Ishibashi T., Kanehori K., Yosida M., Watanabe S., Ishida S., Ono Y.,
RA Hotuta T., Hiraoka S., Murakawa K., Takiguchi S., Kusano J.,
RA Watanabe M., Fujimori K., Tanai H., Ishida M., Yamashita H., Chiba Y.,
RA Sugiyama T., Irie R., Otsuki T., Sato H., Wakamatsu A., Ishii S.,
RA Yamamoto J., Isono Y., Kawai-Hio Y., Saito K., Nishikawa T.,
RA Kimura K., Matsuo K., Nakamura Y., Sekine M., Kikuchi H., Kanda K.,
RA Wagatsuma M., Takahashi-Fujii A., Oshima A., Sugiyama A., Kawakami B.,
RA Suzuki Y., Sugano S., Nagahari K., Masuho Y., Nagai K., Isogai T.;
RT "NEDO human cDNA sequencing project."
RL Submitted (OCT-2001) to the EMBL/GenBank/DBDJ databases.
DR EMBL; AK055539; BAB70946.1; --
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; lectin_c; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS50041; C.TYPE_LLECTIN_2; 1.
KW Hypothetical protein.
SQ SEQUENCE 374 AA; 42280 MW; 8AE64E6BC9E56DCD CRC64;

Query Match 100.0%; Score 2000; DB 4; Length 374;
Best Local Similarity 100.0%; Pred. No. 3e-179;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQRPCYKVIVFHDTSRRLNFEEAK 60
|||||

Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRCGTQPCYKVIYFHDTSRRLNFEAK 60
QY 61 EACRRDGGQLVSI ESEDEQKLI EKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWT 120
Db 61 EACRRDGGQLVSI ESEDEQKLI EKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWT 120
QY 121 DGSISQFRNWWYVDEPSCGSEVCVVMYHQPSPAGIGGPPYMFQWDDRCNMKNFICKYSD 180
Db 121 DGSISQFRNWWYVDEPSCGSEVCVVMYHQPSPAGIGGPPYMFQWDDRCNMKNFICKYSD 180
QY 181 EKPAVPSREAEGEETELTPVLPETQEEADAKKTFKESREAAALNLAYILIPSIPLLLLLV 240
Db 181 EKPAVPSREAEGEETELTPVLPETQEEADAKKTFKESREAAALNLAYILIPSIPLLLLLV 240
QY 241 VTTVVCWWVICRKRKREQDPSTKKQHTIWSPHQGNSPDLEVYNVIRKQSEADLAETRP 300
Db 241 VTTVVCWWVICRKRKREQDPSTKKQHTIWSPHQGNSPDLEVYNVIRKQSEADLAETRP 300
QY 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYEFSPDQMR 360
Db 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYEFSPDQMR 360
QY 361 SKESGWVENEIYG 374
Db 361 SKESGWVENEIYG 374

RESULT 2

Q8TAY8
ID Q8TAY8 PRELIMINARY; PRT; 374 AA.
AC Q8TAY8;
DT 01-JUN-2002 (TremBLrel. 21, Created)
DT 01-JUN-2002 (TremBLrel. 21, Last sequence update)
DT 01-OCT-2003 (TremBLrel. 25, Last annotation update)
DE Similar to unnamed protein product.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Brain;
RA Strausberg R.;
RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC025407; AAH25407.1; -.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; lectin_c; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
SQ SEQUENCE 374 AA; 42312 MW; FC214E6BC9E578D9 CRC64;

Query Match 99.9%; Score 1997; DB 4; Length 374;
Best Local Similarity 99.7%; Pred. No. 5.7e-179;
Matches 373; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRCGTQPCYKVIYFHDTSRRLNFEAK 60
Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRCGTQPCYKVIYFHDTSRRLNFEAK 60
QY 61 EACRRDGGQLVSI ESEDEQKLI EKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWT 120
Db 61 EACRRDGGQLVSI ESEDEQKLI EKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWT 120
QY 121 DGSISQFRNWWYVDEPSCGSEVCVVMYHQPSPAGIGGPPYMFQWDDRCNMKNFICKYSD 180
Db 121 DGSISQFRNWWYVDEPSCGSEVCVVMYHQPSPAGIGGPPYMFQWDDRCNMKNFICKYSD 180
QY 181 EKPAVPSREAEGEETELTPVLPETQEEADAKKTFKESREAAALNLAYILIPSIPLLLLLV 240
Db 181 EKPAVPSREAEGEETELTPVLPETQEEADAKKTFKESREAAALNLAYILIPSIPLLLLLV 240
QY 241 VTTVVCWWVICRKRKREQDPSTKKQHTIWSPHQGNSPDLEVYNVIRKQSEADLAETRP 300

Db 241 VTTVVCWWVICRKRKREQDPSTKKQHTIWSPHQGNSPDLEVYNVIRKQSEADLAETRP 300
QY 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYEFSPDQMR 360
Db 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYEFSPDQMR 360
QY 361 SKESGWVENEIYG 374
Db 361 SKESGWVENEIYG 374

RESULT 3

Q96NC5
ID Q96NC5 PRELIMINARY; PRT; 374 AA.
AC Q96NC5;
DT 01-DEC-2001 (TremBLrel. 19, Created)
DT 01-DEC-2001 (TremBLrel. 19, Last sequence update)
DT 01-OCT-2003 (TremBLrel. 25, Last annotation update)
DE Hypothetical protein FLJ31092.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Tashiro H., Yamazaki M., Watanabe K., Kumagai A., Itakura S.,
RA Fukuzumi Y., Fujimori Y., Komiyama M., Sugiyama T., Irie R.,
RA Otsuki T., Sato H., Wakamatsu A., Ishii S., Yamamoto J., Isono Y.,
RA Kawai-Hio Y., Saito K., Nishikawa T., Kimura K., Yamashita H.,
RA Matsuo K., Nakamura Y., Sekine M., Kikuchi H., Kanda K., Wagatsuma M.,
RA Murakawa K., Kanehori K., Takahashi-Fujii A., Oshima A., Sugiyama A.,
RA Kawakami B., Suzuki Y., Sugano S., Nagahari K., Masuho Y., Nagai K.,
RA Isogai T.;
RT "NEDO human cDNA sequencing project."
RL Submitted (OCT-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AK055654; BAB70978.1; -.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; lectin_c; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
KW Hypothetical protein.
SQ SEQUENCE 374 AA; 42310 MW; CBF74E676E23BA16 CRC64;

Query Match 99.8%; Score 1996; DB 4; Length 374;
Best Local Similarity 99.7%; Pred. No. 7.1e-179;
Matches 373; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRCGTQPCYKVIYFHDTSRRLNFEAK 60
Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRCGTQPCYKVIYFHDTSRRLNFEAK 60
QY 61 EACRRDGGQLVSI ESEDEQKLI EKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWT 120
Db 61 EACRRDGGQLVSI ESEDEQKLI EKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWT 120
QY 121 DGSISQFRNWWYVDEPSCGSEVCVVMYHQPSPAGIGGPPYMFQWDDRCNMKNFICKYSD 180
Db 121 DGSISQFRNWWYVDEPSCGSEVCVVMYHQPSPAGIGGPPYMFQWDDRCNMKNFICKYSD 180
QY 181 EKPAVPSREAEGEETELTPVLPETQEEADAKKTFKESREAAALNLAYILIPSIPLLLLLV 240
Db 181 EKPAVPSREAEGEETELTPVLPETQEEADAKKTFKESREAAALNLAYILIPSIPLLLLLV 240
QY 241 VTTVVCWWVICRKRKREQDPSTKKQHTIWSPHQGNSPDLEVYNVIRKQSEADLAETRP 300
Db 241 VTTVVCWWVICRKRKREQDPSTKKQHTIWSPHQGNSPDLEVYNVIRKQSEADLAETRP 300
QY 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYEFSPDQMR 360
Db 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYEFSPDQMR 360

DE Endocytic receptor Endo180.
GN ENDO180.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20148849; PubMed=10683150;
RA Sheikh H., Yarwood H., Ashworth A., Isacke C.;
RT "Endo180, an endocytic recycling glycoprotein related to the
RT macrophage mannose receptor is expressed on fibroblasts, endothelial
RT cells and macrophages and functions as a lectin receptor."
RL J. Cell Sci. 113:1021-1032(2000).
DR EMBL; AF134838; AAD30280.1; -.
DR HSSP; P02751; 2FN2.
DR GO; GO:0004872; F:receptor activity; IEA.
DR GO; GO:0005529; F:sugar binding; IEA.
DR GO; GO:0005215; F:transporter activity; IEA.
DR GO; GO:0006810; P:transporter activity; IEA.
DR InterPro; IPR000562; FN_Type_II.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR000566; Lipocln_cytFABP.
DR InterPro; IPR008997; RicinB_Like.
DR Pfam; PF00040; fn2; 1.
DR Pfam; PF00059; lectin_c; 8.
DR PRINTS; PR00013; FNTYPEII.
DR ProDom; PD000995; FN_Type_II; 1.
DR SMART; SM00034; CLECT; 8.
DR SMART; SM00059; FN2; 1.
DR SMART; SM00458; RICIN; 1.
DR PROSITE; PS00615; C_TYPE_LECTIN_1; 3.
DR PROSITE; PS50041; C_TYPE_LECTIN_2; 8.
DR PROSITE; PS00023; FIBRONECTIN_2; 1.
DR PROSITE; PS00213; LIPOCALIN; 1.
DR PROSITE; PS50231; RICIN_B_LECTIN; 1.
KW Receptor.
SQ SEQUENCE 1479 AA; 166669 MW; 9F4BAF355F036FCE CRC64;

Query Match 8.8%; Score 176.5; DB 4; Length 1479;
Best Local Similarity 30.4%; Pred. No. 3.9e-07;
Matches 51; Conservative 25; Mismatches 57; Indels 35; Gaps 7;

QY 28 SGQPVCRGGTQPCYKVIYFHDTSRLNPFEEAKEACRRDGGQLVSI ESEDEQKLIK FIE 87
Db 385 SWQPF-----QGH CYRL-----QAEKRSWQESKKACLRGGGDLVSIHSM AELEFITKQIK 434

QY 88 NLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSI SQFRN WYVDEPS---CGSEVCVV 144
Db 435 QEVE---ELWIGL-----NDLKLQMNFEWSDGSLVSFTHWHPFPNFRD SLEDCVT 483

QY 145 MYHQPSAPAGIGGPMFQWNDRCNMKNFNICKYSDEKPAVPSREAE G 192
Db 484 IW----GPEG-----RWNDSPCNQSLPSICKKAGQLSQGA AEEDHG 520

RESULT 15
Q9UBG0
ID Q9UBG0 PRELIMINARY; PRT; 1479 AA.
AC Q9UBG0;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Urokinase receptor-associated protein UPARAP.
GN KIAA0709.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Behrendt N., Jensen O.N., Engelholm L.H., Mortz E., Mann M., Dano K.;

RT "A urokinase receptor-associated protein with specific collagen-
RT binding properties."
RL Submitted (NOV-1998) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Brain;
RX MEDLINE=98403880; PubMed=9734811;
RA Ishikawa K., Nagase T., Suyama M., Miyajima N., Tanaka A., Kotani H.,
RA Nomura N., Ohara O.;
RT "Prediction of the coding sequences of unidentified human genes. X.
RT The complete sequences of 100 new cDNA clones from brain which can
RT code for large proteins in vitro."
RL DNA Res. 5:169-176(1998).
DR EMBL; AF107292; AAF14192.1; -.
DR EMBL; AB014609; BAA31684.1; -.
DR HSSP; P02751; 2FN2.
DR Genew; HGNC:16875; MRC2.
DR GO; GO:0016301; F:kinase activity; IEA.
DR GO; GO:0004872; F:receptor activity; IEA.
DR GO; GO:0005529; F:sugar binding; IEA.
DR GO; GO:0005215; F:transporter activity; IEA.
DR GO; GO:0006810; P:transport; IEA.
DR InterPro; IPR000562; FN_Type_II.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR000566; Lipocln_cytFABP.
DR InterPro; IPR008997; RicinB_Like.
DR InterPro; IPR000772; Ricin_B_lectin.
DR Pfam; PF00040; fn2; 1.
DR Pfam; PF00059; lectin_c; 8.
DR PRINTS; PR00013; FNTYPEII.
DR ProDom; PD000995; FN_Type_II; 1.
DR SMART; SM00034; CLECT; 8.
DR SMART; SM00059; FN2; 1.
DR SMART; SM00458; RICIN; 1.
DR PROSITE; PS00615; C_TYPE_LECTIN_1; 3.
DR PROSITE; PS50041; C_TYPE_LECTIN_2; 8.
DR PROSITE; PS00023; FIBRONECTIN_2; 1.
DR PROSITE; PS00213; LIPOCALIN; 1.
DR PROSITE; PS50231; RICIN_B_LECTIN; 1.
KW Kinase; Receptor.
SQ SEQUENCE 1479 AA; 166654 MW; C7583EA78E2792D1 CRC64;

Query Match 8.8%; Score 176.5; DB 4; Length 1479;
Best Local Similarity 30.4%; Pred. No. 3.9e-07;
Matches 51; Conservative 25; Mismatches 57; Indels 35; Gaps 7;

QY 28 SGQPVCRGGTQPCYKVIYFHDTSRLNPFEEAKEACRRDGGQLVSI ESEDEQKLIK FIE 87
Db 385 SWQPF-----QGH CYRL-----QAEKRSWQESKKACLRGGGDLVSIHSM AELEFITKQIK 434

QY 88 NLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSI SQFRN WYVDEPS---CGSEVCVV 144
Db 435 QEVE---ELWIGL-----NDLKLQMNFEWSDGSLVSFTHWHPFPNFRD SLEDCVT 483

QY 145 MYHQPSAPAGIGGPMFQWNDRCNMKNFNICKYSDEKPAVPSREAE G 192
Db 484 IW----GPEG-----RWNDSPCNQSLPSICKKAGQLSQGA AEEDHG 520

Search completed: September 9, 2004, 22:22:34
Job time : 45 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 9, 2004, 22:20:26 ; Search time 34 Seconds
(without alignments)
567.886 Million cell updates/sec

Title: US-09-887-855-2
Perfect score: 2000
Sequence: 1 MRPGTALQAVLLAVLLVGLR.....PDQMGRSKESGWVENEIYGY 374

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA.*
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2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1990	99.5	374	4	US-09-489-847-166 Sequence 166, App
2	1986	99.3	382	4	US-09-907-794A-137 Sequence 137, App
3	1986	99.3	382	4	US-09-905-125A-137 Sequence 137, App
4	1986	99.3	382	4	US-09-902-775A-137 Sequence 137, App
5	1198.5	59.9	260	4	US-09-638-203-3 Sequence 3, Appli
6	645	32.2	273	4	US-09-638-203-2 Sequence 2, Appli
7	336	16.8	81	4	US-09-489-847-325 Sequence 325, App
8	336	16.8	82	4	US-09-489-847-234 Sequence 234, App
9	336	16.8	115	4	US-09-489-847-324 Sequence 324, App
10	183	9.2	1456	4	US-09-976-594-168 Sequence 168, App
11	178.5	8.9	1455	3	US-08-840-062-5 Sequence 5, Appli
12	176.5	8.8	1479	3	US-08-840-062-4 Sequence 4, Appli
13	174	8.7	1257	1	US-08-340-428B-49 Sequence 49, Appl
14	174	8.7	2409	6	5180808-2 Patent No. 5180808
15	170.5	8.5	1479	3	US-08-840-062-2 Sequence 2, Appli
16	154.5	7.7	652	2	US-08-751-305-2 Sequence 2, Appli
17	152	7.6	912	5	PCT-US95-03747-2 Sequence 2, Appli
18	151	7.5	197	4	US-09-602-877A-99 Sequence 99, Appl
19	151	7.5	455	4	US-09-866-028-50 Sequence 50, Appl
20	149	7.4	174	1	US-07-971B-1 Sequence 1, Appli
21	149	7.4	174	1	US-07-781-248A-1 Sequence 1, Appli
22	149	7.4	320	1	US-08-365-103B-10 Sequence 10, Appl
23	149	7.4	321	1	US-08-365-103B-8 Sequence 8, Appli
24	148.5	7.4	404	4	US-09-517-605-2 Sequence 2, Appli
25	143.5	7.2	372	2	US-08-513-278-4 Sequence 4, Appli
26	143.5	7.2	372	6	5514582-4 Patent No. 5514582
27	142	7.1	1487	3	US-08-840-062-7 Sequence 7, Appli

28	141.5	7.1	125	3	US-08-722-126A-7 Sequence 7, Appli
29	141.5	7.1	125	5	PCT-US95-04258-7 Sequence 7, Appli
30	141.5	7.1	287	1	US-08-365-103B-4 Sequence 4, Appli
31	141.5	7.1	300	1	US-08-365-103B-6 Sequence 6, Appli
32	141.5	7.1	327	1	US-08-365-103B-2 Sequence 2, Appli
33	138.5	6.9	117	6	5514582-7 Patent No. 5514582
34	138.5	6.9	119	1	US-08-340-539A-12 Sequence 12, Appl
35	137.5	6.9	110	6	5514582-12 Patent No. 5514582
36	137.5	6.9	123	6	5514582-19 Patent No. 5514582
37	137.5	6.9	158	2	US-08-729-103-1 Sequence 1, Appli
38	137.5	6.9	158	2	US-08-468-413-2 Sequence 2, Appli
39	137.5	6.9	158	3	US-09-162-508-2 Sequence 2, Appli
40	137.5	6.9	158	5	PCT-US95-07169-2 Sequence 2, Appli
41	137.5	6.9	492	4	US-09-724-864-39 Sequence 39, Appl
42	135	6.8	238	3	US-09-111-470-8 Sequence 8, Appli
43	134.5	6.7	128	4	US-09-535-521-8 Sequence 8, Appli
44	134.5	6.7	139	4	US-09-535-521-11 Sequence 11, Appl
45	134.5	6.7	141	4	US-09-535-521-14 Sequence 14, Appl

ALIGNMENTS

RESULT 1
US-09-489-847-166
; Sequence 166, Application US/09489847
; Patent No. 6476195
; GENERAL INFORMATION:
; APPLICANT: Rosen et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: PZ031P1
; CURRENT APPLICATION NUMBER: US/09/489,847
; CURRENT FILING DATE: 2000-01-24
; EARLIER APPLICATION NUMBER: PCT/US99/17130
; EARLIER FILING DATE: 1999-07-29
; EARLIER APPLICATION NUMBER: 60/094,657
; EARLIER FILING DATE: 1998-07-30
; EARLIER APPLICATION NUMBER: 60/095,486
; EARLIER FILING DATE: 1998-08-05
; EARLIER APPLICATION NUMBER: 60/096,319
; EARLIER FILING DATE: 1998-08-12
; EARLIER APPLICATION NUMBER: 60/095,454
; EARLIER FILING DATE: 1998-08-06
; EARLIER APPLICATION NUMBER: 60/095,455
; EARLIER FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 166
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (84)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (112)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-489-847-166

Query Match 99.5%; Score 1990; DB 4; Length 374;
Best Local Similarity 99.5%; Pred. No. 3.9e-193;
Matches 372; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY	1	MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEAAK 60
DB	1	MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEAAK 60
QY	61	EACRRDGGQLVSI ESEDEQKLI EKFIENLLPSDGFWIGLRRRREEKQSNSTACQDLYAWT 120
DB	61	EACRRDGGQLVSI ESEDEQKLI EKFIENLLPSDGFWIGLRRRREEKQSNSTACQDLYAWT 120

QY 121 DGSISQFRNWWYVDEPSCGSEVCVVMYHQPSPAPAGIGGPPYFQWDDRCNMKNFICKYSD 180
Db 121 DGSISQFRNWWYVDEPSCGSEVCVVMYHQPSPAPAGIGGPPYFQWDDRCNMKNFICKYSD 180
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Db 181 EKPAVPSREAEGETELTTPVLPEETQEEEDAKKTFKESREAAALNLAYILIPSPILLLL 240
QY 241 VTTVVWVWVICRKRKREQDPSTKKQHTIWPSPHQNSPDLEVINVIRKQSEADLAETRP 300
Db 241 VTTVVWVWVICRKRKREQDPSTKKQHTIWPSPHQNSPDLEVINVIRKQSEADLAETRP 300
QY 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYFSPDQMR 360
Db 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYFSPDQMR 360
QY 361 SKESGWVENEIYGY 374
Db 361 SKESGWVENEIYGY 374

RESULT 2
US-09-907-794A-137
; Sequence 137, Application US/09907794A
; Patent No. 6635468
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,794A
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089

; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-907-794A-137
Query Match 99.3%; Score 1986; DB 4; Length 382;
Best Local Similarity 97.9%; Pred. No. 1e-192;
Matches 374; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLS-----GQVCRGGTQPCYKVIYFHDTSR 52
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QY 53 RLNFEAKEACRRDGGQLVSIIESEDEQKLIKFIENLLPSDGDGFWIGLRRREKQSNSTA 112
Db 61 RLNFEAKEACRRDGGQLVSIIESEDEQKLIKFIENLLPSDGDGFWIGLRRREKQSNSTA 120
QY 113 QDLYAWTDGSIQFRNWWYVDEPSCGSEVCVVMYHQPSPAPAGIGGPPYFQWDDRCNMKN 172
Db 121 QDLYAWTDGSIQFRNWWYVDEPSCGSEVCVVMYHQPSPAPAGIGGPPYFQWDDRCNMKN 180
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Db 181 NFICKYSDEKPAVPSREAEGETELTTPVLPEETQEEEDAKKTFKESREAAALNLAYILIPS 240
QY 233 IPLLALLLVTTVVWVWVICRKRKREQDPSTKKQHTIWPSPHQNSPDLEVINVIRKQSE 292
Db 241 IPLLALLLVTTVVWVWVICRKRKREQDPSTKKQHTIWPSPHQNSPDLEVINVIRKQSE 300
QY 293 ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYE 352
Db 301 ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYE 360
QY 353 FSPDQMRSGKESGWVENEIYGY 374
Db 361 FSPDQMRSGKESGWVENEIYGY 382
RESULT 3
US-09-905-125A-137
; Sequence 137, Application US/09905125A
; Patent No. 6664376
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.

```

; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,125A
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-905-125A-137

Query Match          99.3%; Score 1986; DB 4; Length 382;
Best Local Similarity 97.9%; Pred. NO. 1e-192;
Matches 374; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLS-----GQVCRGGTQRPCKVIYFHDTSR 52
Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSASDLDLRGGQPVCRGGTQRPCKVIYFHDTSR 60
QY 53 RLNFEEAKEACRRDGGQLVSIIESEDEQKLIETKFIENLLPSDGDFFWGLRRREEKQSNSTA 112
Db 61 RLNFEEAKEACRRDGGQLVSIIESEDEQKLIETKFIENLLPSDGDFFWGLRRREEKQSNSTA 120
QY 113 CQDLYAWTDGSIQFRNWYVDEPSCGSEVCVMYHQPSAPAGIGGPFYMFQWNDRCNMKN 172
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Db 121 CQDLYAWTDGSIQFRNWYVDEPSCGSEVCVMYHQPSAPAGIGGPFYMFQWNDRCNMKN 180
QY 173 NFICKYSDEKPAVPSREAEGETELTTPVLPEETQEEADAKKTFKESREAAALNLAYILIPS 232
Db 181 NFICKYSDEKPAVPSREAEGETELTTPVLPEETQEEADAKKTFKESREAAALNLAYILIPS 240
QY 233 IPLLLLLLVTTVVCWWWICRKRKREQDPDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSE 292
Db 241 IPLLLLLLVTTVVCWWWICRKRKREQDPDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSE 300
QY 293 ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYE 352
Db 301 ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYE 360
QY 353 FSPDQMGRSKESGWVENEIYGY 374
Db 361 FSPDQMGRSKESGWVENEIYGY 382

RESULT 4
US-09-902-775A-137
; Sequence 137, Application US/09902775A
; Patent No. 6686451
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,775A
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
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; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-902-775A-137

Query Match 99.3%; Score 1986; DB 4; Length 382;
Best Local Similarity 97.9%; Pred. No. 1e-192;
Matches 374; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLS-----GQVCRGGTQPCYKVIYFHDTSR 52
Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSASDLRLRGQPVCRGGTQPCYKVIYFHDTSR 60
QY 53 RLNFEBEAKACRRDGGQLVSISEDEQKLIKFIENLLPSDGFWIGLRRRREKQSNSTA 112
Db 61 RLNFEBEAKACRRDGGQLVSISEDEQKLIKFIENLLPSDGFWIGLRRRREKQSNSTA 120
QY 113 CQDLVYAWTDGSIQFRNWWYVDEPSCGSEVCVVMYHQPSAPAGIGGPFYMFQWDDRCNMKN 172
Db 121 CQDLVYAWTDGSIQFRNWWYVDEPSCGSEVCVVMYHQPSAPAGIGGPFYMFQWDDRCNMKN 180
QY 173 NFICKYSDEKPAVPSREAEGETELTTPVLPEETQEDAKKTFKESREAAALNLAYILIPS 232
Db 181 NFICKYSDEKPAVPSREAEGETELTTPVLPEETQEDAKKTFKESREAAALNLAYILIPS 240
QY 233 IPLLILLVVTTCVWVWICRKRKREQDPSTKKQHTIWPSPHQNSPDLEVNVIRKQSE 292
Db 241 IPLLILLVVTTCVWVWICRKRKREQDPSTKKQHTIWPSPHQNSPDLEVNVIRKQSE 300
QY 293 ADLAEATPDLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVNDIYE 352
Db 301 ADLAEATPDLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVNDIYE 360
QY 353 FSPDQMGSRKESGWVENEIYG 374
Db 361 FSPDQMGSRKESGWVENEIYG 382

RESULT 5
US-09-638-203-3
; Sequence 3, Application US/09638203
; Patent No. 6602501
; GENERAL INFORMATION:
; APPLICANT: Daniel E.H. Afar
; APPLICANT: Rene S. Hubert
; APPLICANT: Aya Jakobovits
; APPLICANT: Arthur B. Raitano
; TITLE OF INVENTION: NOVEL C-TYPE LECTIN TRANSMEMBRANE
; TITLE OF INVENTION: ANTIGEN EXPRESSED IN HUMAN PROSTATE CANCER AND USES THEREOF
; FILE REFERENCE: 129.20USU1
; CURRENT APPLICATION NUMBER: US/09/638,203
; CURRENT FILING DATE: 2000-08-11
; PRIOR APPLICATION NUMBER: 60/148,935
; PRIOR FILING DATE: 1999-08-12
; NUMBER OF SEQ ID NOS: 47

; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 260
; TYPE: PRT
; ORGANISM: Hamster
US-09-638-203-3

Query Match 59.9%; Score 1198.5; DB 4; Length 260;
Best Local Similarity 84.2%; Pred. No. 3.8e-113;
Matches 219; Conservative 17; Mismatches 23; Indels 1; Gaps 1;
QY 25 RLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSISEDEQKLIK 84
Db 1 RLLSGQLVCRGGTQPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSISEDEQKLIK 60
QY 85 FIENLLPSDGFWIGLRRRREKQSNSTACQDLVYAWTDGSIQFRNWWYVDEPSCGSEVCV 144
Db 61 FIENLLASDGFWIGLRRRLEVKQVNTACQDLVYAWTDGSIQFRNWWYVDEPSCGSEVCV 120
QY 145 MYHQPSAPAGIGGPFYMFQWDDRCNMKNNFICKYSDEKPA-VPSREAEGETELTTPVLP 203
Db 121 MYHQPSAPPGIGGPFYMFQWDDRCNMKNNFICKYADEKPSSTPSIRPGGEATEPPTVLP 180
QY 204 EETQEDAKKTFKESREAAALNLAYILIPSIPLLLVLVVTTCVWVWICRKRKREQDPST 263
Db 181 EETQEDTKETFKESREAAALNLAYILIPSIPLLLVLVVTTCVWVWICRKRKREQDPST 240
QY 264 KKQHTIWPSPHQNSPDLEV 283
Db 241 KEQHTIWPSPHQNSPDLEV 260

RESULT 6
US-09-638-203-2
; Sequence 2, Application US/09638203
; Patent No. 6602501
; GENERAL INFORMATION:
; APPLICANT: Daniel E.H. Afar
; APPLICANT: Rene S. Hubert
; APPLICANT: Aya Jakobovits
; APPLICANT: Arthur B. Raitano
; TITLE OF INVENTION: NOVEL C-TYPE LECTIN TRANSMEMBRANE
; TITLE OF INVENTION: ANTIGEN EXPRESSED IN HUMAN PROSTATE CANCER AND USES THEREOF
; FILE REFERENCE: 129.20USU1
; CURRENT APPLICATION NUMBER: US/09/638,203
; CURRENT FILING DATE: 2000-08-11
; PRIOR APPLICATION NUMBER: 60/148,935
; PRIOR FILING DATE: 1999-08-12
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-09-638-203-2

Query Match 32.2%; Score 645; DB 4; Length 273;
Best Local Similarity 48.4%; Pred. No. 5.1e-57;
Matches 137; Conservative 40; Mismatches 80; Indels 26; Gaps 9;
QY 10 VLLAVLLVGLRAATGRLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEEAKEACRRDGGQ 69
Db 8 LLGAALLCGHGAFCRRVVSQKVCFAFKPCYKVMAYFHELSSRVSFQEARLACESEGV 67
QY 70 LVSISEDEQKLIKFIENLLP-----SDGDFWIGLRRRREKQSNSTACQDLVYAWTDGSI 124
Db 68 LLSLENEAEQKLIKESMLQNLTKPGTGISDGDGFWIGLWRNGDGT-SGACPLYQWSDGSN 126
QY 125 SQFRNWWYVDEPSCGSEVCVVMYHQPSAPAGIGGPFYMFQWDDRCNMKNNFICKYSDE-KP 183
Db 127 SQYRNWYTDPEPSCGSEKCVVMYHQPTANPGLGGPLYQWDDRCNMKNNFICKYEPINP 186
QY 184 AVPSREAEGETELTTPVLPEETQEDAKKTFKESREAAAL--NLAYILIPSIPLLLVLV 241

Db 187 TAPV-----EKPYLTNQ--PGDTHQNVV-----VTEAGIPNLIYVVIPTIPLLLILV 233
QY 242 TTVCVWVICRKRK-REQDPSTKQHTIWPSPHQGNSPDLEV 283
Db 234 AFGTCFCFQMLHKSGRKTSPN---QSTLWISKSTRKESGMEV 273

RESULT 7
US-09-489-847-325
; Sequence 325, Application US/09489847
; Patent No. 6476195
; GENERAL INFORMATION:
; APPLICANT: Rosen et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: PZ031P1
; CURRENT APPLICATION NUMBER: US/09/489,847
; CURRENT FILING DATE: 2000-01-24
; EARLIER APPLICATION NUMBER: PCT/US99/17130
; EARLIER FILING DATE: 1999-07-29
; EARLIER APPLICATION NUMBER: 60/094,657
; EARLIER FILING DATE: 1998-07-30
; EARLIER APPLICATION NUMBER: 60/095,486
; EARLIER FILING DATE: 1998-08-05
; EARLIER APPLICATION NUMBER: 60/096,319
; EARLIER FILING DATE: 1998-08-12
; EARLIER APPLICATION NUMBER: 60/095,454
; EARLIER FILING DATE: 1998-08-06
; EARLIER APPLICATION NUMBER: 60/095,455
; EARLIER FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 325
; LENGTH: 81
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-489-847-325

Query Match 16.8%; Score 336; DB 4; Length 81;
Best Local Similarity 100.0%; Pred. No. 1.7e-26;
Matches 65; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRCGGTQRPCYKVIYFHDTSRRLNFEAK 60
Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRCGGTQRPCYKVIYFHDTSRRLNFEAK 60
QY 61 EACRR 65
Db 61 EACRR 65

RESULT 8
US-09-489-847-234
; Sequence 234, Application US/09489847
; Patent No. 6476195
; GENERAL INFORMATION:
; APPLICANT: Rosen et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: PZ031P1
; CURRENT APPLICATION NUMBER: US/09/489,847
; CURRENT FILING DATE: 2000-01-24
; EARLIER APPLICATION NUMBER: PCT/US99/17130
; EARLIER FILING DATE: 1999-07-29
; EARLIER APPLICATION NUMBER: 60/094,657
; EARLIER FILING DATE: 1998-07-30
; EARLIER APPLICATION NUMBER: 60/095,486
; EARLIER FILING DATE: 1998-08-05
; EARLIER APPLICATION NUMBER: 60/096,319
; EARLIER FILING DATE: 1998-08-12
; EARLIER APPLICATION NUMBER: 60/095,454
; EARLIER FILING DATE: 1998-08-06
; EARLIER APPLICATION NUMBER: 60/095,455
; EARLIER FILING DATE: 1998-08-06

; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 234
; LENGTH: 82
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (82)
; OTHER-INFO: Xaa equals stop translation
US-09-489-847-234

Query Match 16.8%; Score 336; DB 4; Length 82;
Best Local Similarity 100.0%; Pred. No. 1.7e-26;
Matches 65; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRCGGTQRPCYKVIYFHDTSRRLNFEAK 60
Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRCGGTQRPCYKVIYFHDTSRRLNFEAK 60
QY 61 EACRR 65
Db 61 EACRR 65

RESULT 9
US-09-489-847-324
; Sequence 324, Application US/09489847
; Patent No. 6476195
; GENERAL INFORMATION:
; APPLICANT: Rosen et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: PZ031P1
; CURRENT APPLICATION NUMBER: US/09/489,847
; CURRENT FILING DATE: 2000-01-24
; EARLIER APPLICATION NUMBER: PCT/US99/17130
; EARLIER FILING DATE: 1999-07-29
; EARLIER APPLICATION NUMBER: 60/094,657
; EARLIER FILING DATE: 1998-07-30
; EARLIER APPLICATION NUMBER: 60/095,486
; EARLIER FILING DATE: 1998-08-05
; EARLIER APPLICATION NUMBER: 60/096,319
; EARLIER FILING DATE: 1998-08-12
; EARLIER APPLICATION NUMBER: 60/095,454
; EARLIER FILING DATE: 1998-08-06
; EARLIER APPLICATION NUMBER: 60/095,455
; EARLIER FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 324
; LENGTH: 115
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-489-847-324

Query Match 16.8%; Score 336; DB 4; Length 115;
Best Local Similarity 100.0%; Pred. No. 2.8e-26;
Matches 65; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRCGGTQRPCYKVIYFHDTSRRLNFEAK 60
Db 35 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRCGGTQRPCYKVIYFHDTSRRLNFEAK 94
QY 61 EACRR 65
Db 95 EACRR 99

RESULT 10
US-09-976-594-168
; Sequence 168, Application US/09976594
; Patent No. 6673549
; GENERAL INFORMATION:

Db 385 SWQPF-----QGHCYRL-----QAEKRSWQESKKACLRGGGLVSIHSMAELEFITKQIK 434

QY 88 NLLPSDGDWFGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVDEPS---CGSEVCVV 144

Db 435 QEVE---BLWIGL-----NDLKLQMNFEWSGSLVSTFHHWPFEPNFRDLSLEDCVT 483

QY 145 MYHQPSAPAGIGGPPYMFQWNDRCNMKNFICKYSDEKPAVPSREAEG 192

Db 484 IW----GPEG-----RWNDSPCNQSLPSICKKAGQLSQGAEEHDHG 520

RESULT 13

US-08-340-428B-49

; Sequence 49, Application US/08340428B

; Patent No. 5648465

; GENERAL INFORMATION:

; APPLICANT: MARGOLIS, Richard U.

; APPLICANT: RAUCH, Uwe

; APPLICANT: MARGOLIS, Renee K.

; TITLE OF INVENTION: CLONING, EXPRESSION AND USES FOR A

; TITLE OF INVENTION: NEUROCAN AS A CHONDROITIN SULFATE PROTEOGLYCAN

; NUMBER OF SEQUENCES: 49

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Browdy and Neimark

; STREET: 419 Seventh Street, N.W.

; CITY: Washington

; STATE: D.C.

; COUNTRY: U.S.A.

; ZIP: 20004

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/340,428B

; FILING DATE: 14 No. 5648465ember 1994

; CLASSIFICATION: 514

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 07/922,911

; FILING DATE: 03 August 1992

; CLASSIFICATION: 514

; ATTORNEY/AGENT INFORMATION:

; NAME: Browdy, Roger L.

; REGISTRATION NUMBER: 25,618

; REFERENCE/DOCKET NUMBER: Margolis=1A

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 202-628-5197

; TELEFAX: 202-737-3528

; INFORMATION FOR SEQ ID NO: 49:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 1257 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: peptide

US-08-340-428B-49

Query Match 8.7%; Score 174; DB 1; Length 1257;

Best Local Similarity 30.8%; Pred. No. 2.9e-08;

Matches 44; Conservative 18; Mismatches 49; Indels 32; Gaps 6;

QY 38 QRPCYKVIYFHDTSRRRLNFEAEKACRRDGGQLVSISEDEQKLIKFIENLLPSDGDWF 97

Db 1037 QGHCYR--YF---AHRRAWEDAERDCRRRAGHLTSVHSPEEHKFINSF-----GHENSW 1085

QY 98 IGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVDEPS---CGSEVCVVMYHQPSAPAG 154

Db 1086 IGLNDRTVRD-----FQWTDNTGLQYENWRREKQPDNFFAGGEDCVVMVAHENG--- 1134

QY 155 IGGPYMFQWNDRCNMKNFICK 177

Db 1135 -----RWNDVPCNYNLPYVCK 1150

RESULT 14

5180808-2

; Patent No. 5180808

; APPLICANT: RUOSLAHTI, ERKKI I.

; TITLE OF INVENTION: VERSICAN CORE PROTEIN, NUCLEIC ACID

; SEQUENCES ENCODING THE SAME, NUCLEIC ACID PROBES, ANTI-VERSICAN

; ANTIBODIES, AND METHODS OF DETECTING THE SAME

; NUMBER OF SEQUENCES: 4

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/07/441,179

; FILING DATE: 27-NOV-1989

; SEQ ID NO:2

; LENGTH: 2409

5180808-2

Query Match 8.7%; Score 174; DB 6; Length 2409;

Best Local Similarity 28.5%; Pred. No. 7.8e-08;

Matches 47; Conservative 23; Mismatches 55; Indels 40; Gaps 8;

QY 38 QRPCYKVIYFHDTSRRRLNFEAEKACRRDGGQLVSISEDEQKLIKFIENLLPSDGDWF- 96

Db 2190 QGQCYK--YF---AHRRTWDAARECRLOGAHLTSILSHEEQMFVNRV-----GHDYQ 2237

QY 97 WIGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVDEP---SCGSEVCVVMYHQPSAP 152

Db 2238 WIGL-----NDKMFHDFRWTGSLQYENWRPNQDPSFFSAGEDCVVIWHENG--- 2287

QY 153 AGIGGPPYMFQWNDRCNMKNFICKYS-----DEKPAVPSREAEGE 193

Db 2288 -----QWNDVPCNYHLTYTCKKGTVACGQPPVVENAKTFGK 2323

RESULT 15

US-08-840-062-2

; Sequence 2, Application US/08840062

; Patent No. 6117977

; GENERAL INFORMATION:

; APPLICANT: LASKY, LAURENCE A.

; APPLICANT: WU, KAI

; TITLE OF INVENTION: TYPE C LECTINS

; NUMBER OF SEQUENCES: 15

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Genentech, Inc.

; STREET: 460 Point San Bruno Blvd

; CITY: South San Francisco

; STATE: California

; COUNTRY: USA

; ZIP: 94080

; COMPUTER READABLE FORM:

; MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: WinPatIn (Genentech)

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/840,062

; FILING DATE:

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: Dreger, Ginger R.

; REGISTRATION NUMBER: 33,055

; REFERENCE/DOCKET NUMBER: P1019R1

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 415/225-3216

; TELEFAX: 415/952-9881

; TELEX: 910/371-7168

; INFORMATION FOR SEQ ID NO: 2:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 1479 amino acids

; TYPE: Amino Acid

; TOPOLOGY: Linear

US-08-840-062-2

Query Match	8.5%	Score 170.5;	DB 3;	Length 1479;
Best Local Similarity	31.4%;	Pred. No. 8.4e-08;		
Matches	48;	Conservative 22;	Mismatches 48;	Indels 35; Gaps 7;

Qy	28	SGQPVCRRGGTQPCYKVIYFHDTSRRLNFEBAKACRRDGGQLVSISEDEQKLIKIEFIE	87
Db	384	SWQPF-----QCHCYRL-----QAEKRSWQESKRACLRGGDDLISHMAELEFITKQIK	433
Qy	88	NLLPSDGDWFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVDEPS---CGSEVCVV	144
Db	434	QEVE---ELWIGL-----NDLKLQMNFEWSDGSLVSFTHWHPPFEPNFRDSLEDCT	482
Qy	145	MYHQSAPAGIGGPFQWDDRCNMKNFICK	177
Db	483	IW-----GPEG-----RWNDSPCNQSLPSICK	504

Search completed: September 9, 2004, 22:23:40
Job time : 35 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 9, 2004, 22:22:42 ; Search time 130 Seconds
(without alignments)
922.599 Million cell updates/sec

Title: US-09-887-855-2
Perfect score: 2000
Sequence: 1 MRPGTALQAVLLAVLLVGLR.....PDQMGRSKESGWENEIYGY 374

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1335176 seqs, 320689617 residues

Total number of hits satisfying chosen parameters: 1335176

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep:*
- 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep:*
- 5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep:*
- 6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep:*
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- 8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
- 9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep:*
- 10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep:*
- 11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep:*
- 12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep:*
- 13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep:*
- 14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
- 15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep:*
- 16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
- 17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
- 18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	2000	100.0	374	9	US-09-887-855-2
2	2000	100.0	374	14	US-10-149-819-15
3	2000	100.0	374	15	US-10-094-749-2090
4	2000	100.0	374	15	US-10-264-237-2579
5	2000	100.0	374	16	US-10-648-593-148
6	1996	99.8	374	15	US-10-094-749-2142
7	1990	99.5	374	12	US-10-351-334-166
8	1986	99.3	382	9	US-09-909-320-137
9	1986	99.3	382	9	US-09-909-088B-137
10	1986	99.3	382	9	US-09-905-291A-137
11	1986	99.3	382	9	US-09-902-853-137
12	1986	99.3	382	9	US-09-907-824-137
13	1986	99.3	382	9	US-09-907-841-137
14	1986	99.3	382	10	US-09-904-011-137
15	1986	99.3	382	10	US-09-906-742-137

16	1986	99.3	382	10	US-09-906-838-137	Sequence 137, App
17	1986	99.3	382	10	US-09-907-613-137	Sequence 137, App
18	1986	99.3	382	10	US-09-907-942-137	Sequence 137, App
19	1986	99.3	382	10	US-09-904-859-137	Sequence 137, App
20	1986	99.3	382	10	US-09-909-204-137	Sequence 137, App
21	1986	99.3	382	10	US-09-904-820-137	Sequence 137, App
22	1986	99.3	382	10	US-09-904-786-137	Sequence 137, App
23	1986	99.3	382	10	US-09-906-646-137	Sequence 137, App
24	1986	99.3	382	10	US-09-906-700-137	Sequence 137, App
25	1986	99.3	382	10	US-09-903-786-137	Sequence 137, App
26	1986	99.3	382	10	US-09-902-903-137	Sequence 137, App
27	1986	99.3	382	10	US-09-903-749A-137	Sequence 137, App
28	1986	99.3	382	10	US-09-904-119-137	Sequence 137, App
29	1986	99.3	382	10	US-09-904-956-137	Sequence 137, App
30	1986	99.3	382	10	US-09-902-736-137	Sequence 137, App
31	1986	99.3	382	10	US-09-907-794-137	Sequence 137, App
32	1986	99.3	382	10	US-09-903-943-137	Sequence 137, App
33	1986	99.3	382	10	US-09-904-462-137	Sequence 137, App
34	1986	99.3	382	10	US-09-907-925-137	Sequence 137, App
35	1986	99.3	382	10	US-09-902-692-137	Sequence 137, App
36	1986	99.3	382	10	US-09-903-520-137	Sequence 137, App
37	1986	99.3	382	10	US-09-905-056-137	Sequence 137, App
38	1986	99.3	382	10	US-09-909-064-137	Sequence 137, App
39	1986	99.3	382	10	US-09-904-553-137	Sequence 137, App
40	1986	99.3	382	10	US-09-905-381-137	Sequence 137, App
41	1986	99.3	382	10	US-09-905-088-137	Sequence 137, App
42	1986	99.3	382	10	US-09-907-575-137	Sequence 137, App
43	1986	99.3	382	10	US-09-905-075-137	Sequence 137, App
44	1986	99.3	382	10	US-09-902-759-137	Sequence 137, App
45	1986	99.3	382	10	US-09-902-634-137	Sequence 137, App

ALIGNMENTS

RESULT 1)
US-09-887-855-2
; Sequence 2, Application US/09887855
; Patent No. US20020058310A1
; GENERAL INFORMATION:
; APPLICANT: Immunex Corporation
; APPLICANT: Anderson, Dirk M
; TITLE OF INVENTION: LECTIN SS3939 DNA AND POLYPEPTIDES
; FILE REFERENCE: 2883-US
; CURRENT APPLICATION NUMBER: US/09/887,855
; CURRENT FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-887-855-2

Query Match 100.0%; Score 2000; DB 9; Length 374;
Best Local Similarity 100.0%; Pred. No. 2.8e-179;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	MRPGTALQAVLLAVLLVGLRAATGRLLSQPVCRGGTQPCYKVIYFHDTSRRLNFEAK	60
Db	1	MRPGTALQAVLLAVLLVGLRAATGRLLSQPVCRGGTQPCYKVIYFHDTSRRLNFEAK	60
QY	61	EACRRDGGQLVSI ESEDEQK LIEKFIENLLPSDGFWIGLRRRREEKQSNSTACQDLYAWT	120
Db	61	EACRRDGGQLVSI ESEDEQK LIEKFIENLLPSDGFWIGLRRRREEKQSNSTACQDLYAWT	120
QY	121	DGSISQFRNWIYDEPSCGSEVCVVMYHQPSAPAGIGGYPMFQWDDRCNMKNFICKYSD	180
Db	121	DGSISQFRNWIYDEPSCGSEVCVVMYHQPSAPAGIGGYPMFQWDDRCNMKNFICKYSD	180
QY	181	EKPAVPSREAEGETELTTPVLPEETQEEADAKKTFKESREAAALNAYILIPSIPLLLLV	240
Db	181	EKPAVPSREAEGETELTTPVLPEETQEEADAKKTFKESREAAALNAYILIPSIPLLLLV	240

Qy 361 SKESGWVENEIYGY 374
|||
Db 361 SKESGWVENEIYGY 374

RESULT 4

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US-10-264-237-2579
; Sequence 2579, Application US/10264237
; Publication No. US20040009491A1
; GENERAL INFORMATION:
; APPLICANT: Birse et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PA131P1
; CURRENT APPLICATION NUMBER: US/10/264,237
; CURRENT FILING DATE: 2002-10-04
; PRIOR APPLICATION NUMBER: PCT/US01/16450
; PRIOR FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: US 60/205,515
; PRIOR FILING DATE: 2000-05-19
; NUMBER OF SEQ ID NOS: 2876
; SOFTWARE: PatentIn Ver. 3.1
; SEQ ID NO 2579
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-264-237-2579

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Query Match	100.0%;	Score 2000;	DB 15;	Length 374;
Best Local Similarity	100.0%;	Pred. No. 2.8e-179;		
Matches 374;	Conservative	0;	Mismatches 0;	Indels 0;
Gaps	0;			

QY	1	MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQRPCYKVIYFHDTSRRLNFEEAK	60
Db	1	MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQRPCYKVIYFHDTSRRLNFEEAK	60
QY	61	EACRRDGGQLVSI ESEDEQKLI EKFIENLLPSDGDGFWIGLRRRREEKQSNSTACQDLYAWT	120
Db	61	EACRRDGGQLVSI ESEDEQKLI EKFIENLLPSDGDGFWIGLRRRREEKQSNSTACQDLYAWT	120
QY	121	DGSI SQFRN WYVDEP SCGSEVCVVMYHQPSAPAGIGGPMFQWDDRCNMKNNFICKYSD	180
Db	121	DGSI SQFRN WYVDEP SCGSEVCVVMYHQPSAPAGIGGPMFQWDDRCNMKNNFICKYSD	180
QY	181	EKPAVPSREAEGETELTTPVLPEETQEEADAKKTFKESREAAALNAYILIPSIPLLLLLV	240
Db	181	EKPAVPSREAEGETELTTPVLPEETQEEADAKKTFKESREAAALNAYILIPSIPLLLLLV	240
QY	241	VTTVV CWWWICRKRKREQDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSEADLAETRP	300
Db	241	VTTVV CWWWICRKRKREQDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSEADLAETRP	300
QY	301	DLKNISFRVCSGEATPDDMSCDYDNNM VNPSESGFVTLVSVESGFVTNDIYEFSPDQMR	360
Db	301	DLKNISFRVCSGEATPDDMSCDYDNNM VNPSESGFVTLVSVESGFVTNDIYEFSPDQMR	360
QY	361	SKESGWVENEIYGY	374
Db	361	SKESGWVENEIYGY	374

RESIST

US-10-648-593-148
; Sequence 148, Application US/10648593
; Publication No. US20040106132A1

/ APPLICANT: Bristol-Myers Squibb Company
 / TITLE OF INVENTION: IDENTIFICATION OF GENES FOR PREDICTING ACTIVITY OF COMPOUNDS THAT
 / INTERACT WITH AND/OR MODULATE PROTEIN TYROSINE KINASES AND/OR
 / TITLE OF INVENTION: PROTEIN TYROSINE KINASE PATHWAYS IN BREAST CELLS
 / TITLE OF INVENTION: PROTEIN TYROSINE KINASE PATHWAYS IN BREAST CELLS
 / FILE REFERENCE: D0273 NP
 / CURRENT APPLICATION NUMBER: US/10/648,593
 / CURRENT FILING DATE: 2003-08-26

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; PRIOR APPLICATION NUMBER: 60/406,385
; PRIOR FILING DATE: 2002-08-27
; NUMBER OF SEQ ID NOS: 557
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 148
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-648-593-148

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Query Match	100.0%;	Score 2000;	DB 16;	Length 374;
Best Local Similarity	100.0%;	Pred. No. 2.8e-179;		
Matches 374; Conservative	0;	Mismatches 0;	Indels 0;	Gaps 0;

QY	1	MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQRPCYKVYIFHDTSRRLNFEEAK	60
Db	1	MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQRPCYKVYIFHDTSRRLNFEEAK	60
QY	61	EACRRDGGQLVSIIESEDEQKLEKFIENLLPSDGDGFWIGLRRREEKQSNSTACQDLYAWT	120
Db	61	EACRRDGGQLVSIIESEDEQKLEKFIENLLPSDGDGFWIGLRRREEKQSNSTACQDLYAWT	120
QY	121	DGSISQFRNWYVDEPSCGSEVCVVMYHQPSAPAGICGPPYMFQWDDRCNMKNFICKYSD	180
Db	121	DGSISQFRNWYVDEPSCGSEVCVVMYHQPSAPAGICGPPYMFQWDDRCNMKNFICKYSD	180
QY	181	EKPAVPSREAEGETELTTPVLPEETOEEADAKTKPKESREAAALNLAYILIPSIPLLLLV	240
Db	181	EKPAVPSREAEGETELTTPVLPEETOEEADAKTKPKESREAAALNLAYILIPSIPLLLLV	240
QY	241	VTTVVCVWVICRKEKREQDPSTKKQHTIWPSPHQNSPDLEVYNVIRKQSEADLAETRP	300
Db	241	VTTVVCVWVICRKEKREQDPSTKKQHTIWPSPHQNSPDLEVYNVIRKQSEADLAETRP	300
QY	301	DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYEFSPDQMGR	360
Db	301	DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYEFSPDQMGR	360
QY	361	SKESGWVENEIYG	374
Db	361	SKESGWVENEIYG	374

RESULT 6

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US-10-094-749-2142
; Sequence 2142, Application US/10094749
; Publication No. US20030219741A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: NOVEL FULL-LENGTH cDNA
; FILE REFERENCE: 084335/0160
; CURRENT APPLICATION NUMBER: US/10/094,749
; CURRENT FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 60/350,435
; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: JP 2001-328381

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; PRIOR FILING DATE: 2001-09-14
; NUMBER OF SEQ ID NOS: 3381
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2142
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-094-749-2142

Query Match          99.8%; Score 1996; DB 15; Length 374;
Best Local Similarity 99.7%; Pred. No. 6.8e-179;
Matches 373; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCYKVIYFHDTSRLNFEEAK 60
Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCYKVIYFHDTSRLNFEEAK 60
QY 61 EACRRDGGQLVSI ESEDEQKLI EKFIENLLPSDGDGFWIGLRRRREKQSNSTACQDLYAWT 120
Db 61 EACRRDGGQLVSI ESEDEQKLI EKFIENLLPSDGDGFWIGLRRRREKQSNSTACQDLYAWT 120
QY 121 DGSISQFRNWWYVDEPSCGSEVVCVVMYHQPAPAGIGGPPYMFQWDDRCNMKNFICKYSD 180
Db 121 DGSISQFRNWWYVDEPSCGSEVVCVVMYHQPAPAGIGGPPYMFQWDDRCNMKNFICKYSD 180
QY 181 EKPAVPSREAEGEETELTPVLPETQEEADAKTKFKESREAAALNLAYILPSIPLLLLLV 240
Db 181 EKPAVPSREAEGEETELTPVLPETQEEADAKTKFKESREAAALNLAYILPSIPLLLLLV 240
QY 241 VTTVVCWWVICRKRKREQDPSTKKQHTIWPSPHQNSPDLEVINVRKQSEADLAETRP 300
Db 241 VTTVVCWWVICRKRKREQDPSTKKQHTIWPSPHQNSPDLEVINVRKQSEADLAETRP 300
QY 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYEFSPDQMGR 360
Db 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYEFSPDQMGR 360
QY 361 SKESGWVENEIYGY 374
Db 361 SKESGWVENEIYGY 374

RESULT 7
US-10-351-334-166
; Sequence 166, Application US/10351334
; Publication No. US20040034196A1
; GENERAL INFORMATION:
; APPLICANT: Komatsoulis et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: PZ031P2
; CURRENT APPLICATION NUMBER: US/10/351,334
; CURRENT FILING DATE: 2003-01-27
; PRIOR APPLICATION NUMBER: 60/350,898
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/489,847
; PRIOR FILING DATE: 2000-01-24
; PRIOR APPLICATION NUMBER: PCT/US99/17130
; PRIOR FILING DATE: 1999-07-29
; PRIOR APPLICATION NUMBER: 60/094,657
; PRIOR FILING DATE: 1998-07-30
; PRIOR APPLICATION NUMBER: 60/095,486
; PRIOR FILING DATE: 1998-08-05
; PRIOR APPLICATION NUMBER: 60/096,319
; PRIOR FILING DATE: 1998-08-12
; PRIOR APPLICATION NUMBER: 60/095,454
; PRIOR FILING DATE: 1998-08-06
; PRIOR APPLICATION NUMBER: 60/095,455
; PRIOR FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 166
; LENGTH: 374
; TYPE: PRT

; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (84)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (112)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-10-351-334-166

Query Match          99.5%; Score 1990; DB 12; Length 374;
Best Local Similarity 99.5%; Pred. No. 2.5e-178;
Matches 372; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCYKVIYFHDTSRLNFEEAK 60
Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCYKVIYFHDTSRLNFEEAK 60
QY 61 EACRRDGGQLVSI ESEDEQKLI EKFIENLLPSDGDGFWIGLRRRREKQSNSTACQDLYAWT 120
Db 61 EACRRDGGQLVSI ESEDEQKLI EKFIENLLPSDGDGFWIGLRRRREKQSNSTACQDLYAWT 120
QY 121 DGSISQFRNWWYVDEPSCGSEVVCVVMYHQPAPAGIGGPPYMFQWDDRCNMKNFICKYSD 180
Db 121 DGSISQFRNWWYVDEPSCGSEVVCVVMYHQPAPAGIGGPPYMFQWDDRCNMKNFICKYSD 180
QY 181 EKPAVPSREAEGEETELTPVLPETQEEADAKTKFKESREAAALNLAYILPSIPLLLLLV 240
Db 181 EKPAVPSREAEGEETELTPVLPETQEEADAKTKFKESREAAALNLAYILPSIPLLLLLV 240
QY 241 VTTVVCWWVICRKRKREQDPSTKKQHTIWPSPHQNSPDLEVINVRKQSEADLAETRP 300
Db 241 VTTVVCWWVICRKRKREQDPSTKKQHTIWPSPHQNSPDLEVINVRKQSEADLAETRP 300
QY 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYEFSPDQMGR 360
Db 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYEFSPDQMGR 360
QY 361 SKESGWVENEIYGY 374
Db 361 SKESGWVENEIYGY 374

RESULT 8
US-09-909-320-137
; Sequence 137, Application US/09909320
; Patent No. US20020132240A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
```


APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/909,320
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR FILING DATE: 2000-02-22
PRIOR FILING DATE: 1999-07-07
PRIOR FILING DATE: 1999-07-26
PRIOR FILING DATE: 1999-07-28
PRIOR FILING DATE: 1999-09-08
PRIOR FILING DATE: 1999-09-13
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-10-05
PRIOR FILING DATE: 1999-11-29
PRIOR FILING DATE: 1999-11-30
PRIOR FILING DATE: 1999-12-02
PRIOR FILING DATE: 1999-12-02
PRIOR FILING DATE: 1999-12-16
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 137
LENGTH: 382
TYPE: PRT
ORGANISM: Homo sapiens
US-09-909-320-137

Query Match 99.3%; Score 1986; DB 9; Length 382;
Best local Similarity 97.9%; Pred. No. 6,1e-178;
Matches 374; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLS-----GQPVCRGGTQPCYKVIYFHDTSR 52
Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSASDLDLRGGQPVCRGGTQPCYKVIYFHDTSR 60

QY 53 RLNFEEAKEACRRDGGQLVSIIESEDEQKLEKFIENLLPSDGDFFWIGLRRREEKQSNSTA 112
Db 61 RLNFEEAKEACRRDGGQLVSIIESEDEQKLEKFIENLLPSDGDFFWIGLRRREEKQSNSTA 120

QY 113 QODLYAWTDGSIQFRNWWYVDEPSCGSEVCVVMYHQPSAPAGIGGPFQWQNDRCNMKN 172
Db 121 QODLYAWTDGSIQFRNWWYVDEPSCGSEVCVVMYHQPSAPAGIGGPFQWQNDRCNMKN 180

QY 173 NFICKYSDEKPAVPSREAEGETELTTPVLPEETOEDAKKTFKESREAAINLAYILIPS 232
Db 181 NFICKYSDEKPAVPSREAEGETELTTPVLPEETOEDAKKTFKESREAAINLAYILIPS 240

QY 233 IPLLLLLLVTTVVCWVWVICRKRREQDPSTKKQHTIWPSPHQNSPDLEVYNVIRKQSE 292
Db 241 IPLLLLLLVTTVVCWVWVICRKRREQDPSTKKQHTIWPSPHQNSPDLEVYNVIRKQSE 300

QY 293 ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYE 352

Db 301 ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYE 360
QY 353 FSPDQMGSRKSGWVENEIYGY 374
Db 361 FSPDQMGSRKSGWVENEIYGY 382

RESULT 9
US-09-909-088B-137
Sequence 137, Application US/09909088B
Patent No. US20020146709A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/909,088B
CURRENT FILING DATE: 2001-07-18
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999

;
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-909-088B-137

Query Match 99.3%; Score 1986; DB 9; Length 382;
Best Local Similarity 97.9%; Pred. No. 6.1e-178;
Matches 374; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLS-----GQVCRGGTQPCYKVIYFHDTSR 52
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
1 MRPGTALQAVLLAVLLVGLRAATGRLLSASDLRLGGQPVCRGGTQPCYKVIYFHDTSR 60

QY 53 RLNFEEAKEACRRDGGQLVSIIESEDEQKLIIEKFIENLLPSDGDGFWIGLRRRREKQSNSTA 112
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
61 RLNFEEAKEACRRDGGQLVSIIESEDEQKLIIEKFIENLLPSDGDGFWIGLRRRREKQSNSTA 120

QY 113 CQDLVYAWTDGSGISQFRNWWYVDEPSCGSEVCVVMYHQPAPAGIGGPMFQWDDRCNMKN 172
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
121 CQDLVYAWTDGSGISQFRNWWYVDEPSCGSEVCVVMYHQPAPAGIGGPMFQWDDRCNMKN 180

QY 173 NFICKYSDEKPAVPSREAEGETELTTPVLPETQEEEDAKKTFKESREAAALNLAYILIPS 232
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
181 NFICKYSDEKPAVPSREAEGETELTTPVLPETQEEEDAKKTFKESREAAALNLAYILIPS 240

QY 233 IPLLLLLVVTTVVWVWVICRKRKREQDPSTKKQHTIWPSPHQNSPDLEVNVIRKQSE 292
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
241 IPLLLLLVVTTVVWVWVICRKRKREQDPSTKKQHTIWPSPHQNSPDLEVNVIRKQSE 300

QY 293 ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAYNPSESGFVTLVSVESGFTNDIYE 352
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
301 ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAYNPSESGFVTLVSVESGFTNDIYE 360

QY 353 FSPDQGRSKESGWENEIYGY 374
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
361 FSPDQGRSKESGWENEIYGY 382

RESULT 10
US-09-905-291A-137
; Sequence 137, Application US/09905291A
; Patent No. US20020160374A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.

;
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,291A
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-905-291A-137

Query Match 99.3%; Score 1986; DB 9; Length 382;
Best Local Similarity 97.9%; Pred. No. 6.1e-178;
Matches 374; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLS-----GQVCRGGTQPCYKVIYFHDTSR 52
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
1 MRPGTALQAVLLAVLLVGLRAATGRLLSASDLRLGGQPVCRGGTQPCYKVIYFHDTSR 60

QY 53 RLNFEEAKEACRRDGGQLVSIIESEDEQKLIIEKFIENLLPSDGDGFWIGLRRRREKQSNSTA 112
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
61 RLNFEEAKEACRRDGGQLVSIIESEDEQKLIIEKFIENLLPSDGDGFWIGLRRRREKQSNSTA 120

QY 113 CQDLVYAWTDGSGISQFRNWWYVDEPSCGSEVCVVMYHQPAPAGIGGPMFQWDDRCNMKN 172
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
121 CQDLVYAWTDGSGISQFRNWWYVDEPSCGSEVCVVMYHQPAPAGIGGPMFQWDDRCNMKN 180

QY 173 NFICKYSDEKPAVPSREAEGETELTTPVLPETQEEEDAKKTFKESREAAALNLAYILIPS 232
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
181 NFICKYSDEKPAVPSREAEGETELTTPVLPETQEEEDAKKTFKESREAAALNLAYILIPS 240

QY 233 IPLLLLLVVTTVVWVWVICRKRKREQDPSTKKQHTIWPSPHQNSPDLEVNVIRKQSE 292
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
241 IPLLLLLVVTTVVWVWVICRKRKREQDPSTKKQHTIWPSPHQNSPDLEVNVIRKQSE 300

QY 293 ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAYNPSESGFVTLVSVESGFTNDIYE 352
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
301 ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAYNPSESGFVTLVSVESGFTNDIYE 360

QY 353 FSPDQMGSRKESGWVENEIYG 374
Db 361 FSPDQMGSRKESGWVENEIYG 382

RESULT 11

US-09-902-853-137
; Sequence 137, Application US/09902853
; Publication No. US20020192659A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,853
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: US/09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20

; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-902-853-137

Query Match 99.3%; Score 1986; DB 9; Length 382;
Best Local Similarity 97.9%; Pred. No. 6.1e-178;
Matches 374; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLS-----GQVCRGGGTQPCYKVIYFHDTSR 52
Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSASDLRLGGQPVCRGGGTQPCYKVIYFHDTSR 60
QY 53 RLNFEEAKEACRRDGGQQLVSISEDEQKLIKFIENLLPSDGDFFWGLRRREKQSNSTA 112
Db 61 RLNFEEAKEACRRDGGQQLVSISEDEQKLIKFIENLLPSDGDFFWGLRRREKQSNSTA 120
QY 113 QDLYAWTDGSGISQFRNWYVDEPSGSEVCVMYHQPSPAGIGGYPMFQWDDRCNMKN 172
Db 121 QDLYAWTDGSGISQFRNWYVDEPSGSEVCVMYHQPSPAGIGGYPMFQWDDRCNMKN 180
QY 173 NFICKYSDEKPAVPSREAEGETELTTPVLPEETOEDAKKTFKESREAAALNLAYILPS 232
Db 181 NFICKYSDEKPAVPSREAEGETELTTPVLPEETOEDAKKTFKESREAAALNLAYILPS 240
QY 233 IPLLLLLVVTWVCWVWICRKRKEQDPDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSE 292
Db 241 IPLLLLLVVTWVCWVWICRKRKEQDPDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSE 300
QY 293 ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYE 352
Db 301 ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYE 360
QY 353 FSPDQMGSRKESGWVENEIYG 374
Db 361 FSPDQMGSRKESGWVENEIYG 382

RESULT 12

US-09-907-824-137
; Sequence 137, Application US/09907824
; Publication No. US20020197671A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,824
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-907-824-137

Query Match 99.3%; Score 1986; DB 9; Length 382;
Best Local Similarity 97.9%; Pred. No. 6.1e-178;
Matches 374; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLS-----GQVCRGGTQRCYKVIYFHDTSR 52
Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSASDLDRGGQPVCRGGTQRCYKVIYFHDTSR 60

QY 53 RLNFEEAKEACRRDGGQLVSIIESEDEQKLIIEKFIENLLPSDGFWIGLRRREEKQSNSTA 112
Db 61 RLNFEEAKEACRRDGGQLVSIIESEDEQKLIIEKFIENLLPSDGFWIGLRRREEKQSNSTA 120

QY 113 CQDLYAWTDGSIISQFRNWKYVDEPSCGSEVCVVMYHQPSAPAGIGGYPNFQWNDRCNMKN 172
Db 121 CQDLYAWTDGSIISQFRNWKYVDEPSCGSEVCVVMYHQPSAPAGIGGYPNFQWNDRCNMKN 180

QY 173 NFICKYSDEKPAVPSREAEGETELTTPVLPEETQEEDAKTKTFKESREAAINLAYILIPS 232
Db 181 NFICKYSDEKPAVPSREAEGETELTTPVLPEETQEEDAKTKTFKESREAAINLAYILIPS 240

QY 233 IPLLLLLLVTTVVCVWVICRKRKREQDPSTPKQHTIWPSPHQGNSPDLEVYNVIRKQSE 292
Db 241 IPLLLLLLVTTVVCVWVICRKRKREQDPSTPKQHTIWPSPHQGNSPDLEVYNVIRKQSE 300

QY 293 ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYE 352

Db 301 ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYE 360
QY 353 FSPDQMGSRKESGWENEIYGY 374
Db 361 FSPDQMGSRKESGWENEIYGY 382

RESULT 13
US-09-907-841-137
; Sequence 137, Application US/09907841
; Publication No. US20020198366A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,841
; CURRENT FILING DATE: 2001-11-20
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-907-841-137

Query Match 99.3%; Score 1986; DB 9; Length 382;
Best Local Similarity 97.9%; Pred. No. 6.1e-178;
Matches 374; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

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Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSASDLDLRGGQPVCRGGTQRPCKVIYFHDTSR 60
QY 53 RLNFEEAKEACRRDGGQLVSTSEDEQKLEKFIENLLPSDGFWIGLRRRREEKQSNSTA 112
Db 61 RLNFEEAKEACRRDGGQLVSTSEDEQKLEKFIENLLPSDGFWIGLRRRREEKQSNSTA 120
QY 113 CQDLYAWTDGSIQFRNWWYVDEPSCGSEVCVVMYHQPSAPAGIGGYPYMFQWNNDRCNMKN 172
Db 121 CQDLYAWTDGSIQFRNWWYVDEPSCGSEVCVVMYHQPSAPAGIGGYPYMFQWNNDRCNMKN 180
QY 173 NFICKYSDEKPAVPSREAEGETELTTPVLPEETOEEADAKKTFKESREAAALNLAYILIPS 232
Db 181 NFICKYSDEKPAVPSREAEGETELTTPVLPEETOEEADAKKTFKESREAAALNLAYILIPS 240
QY 233 IPLLLLLVVTTVVVCWWVICRKRREQDPDPSTKKQHTIWPSPHQGNSPDLEVNVIKQSE 292
Db 241 IPLLLLLVVTTVVVCWWVICRKRREQDPDPSTKKQHTIWPSPHQGNSPDLEVNVIKQSE 300
QY 293 ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFTNDIYE 352
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Db 361 FSPDQMGRSKESGWVENEIYGY 382

RESULT 14

US-09-904-011-137
; Sequence 137, Application US/09904011
; Publication No. US20030003530A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,011
; CURRENT FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26

; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-904-011-137

Query Match 99.3%; Score 1986; DB 10; Length 382;

Best Local Similarity 97.9%; Pred. No. 6.1e-178;

Matches 374; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLS-----GQPVCRGGTQRPCKVIYFHDTSR 52
Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSASDLDLRGGQPVCRGGTQRPCKVIYFHDTSR 60
QY 53 RLNFEEAKEACRRDGGQLVSTSEDEQKLEKFIENLLPSDGFWIGLRRRREEKQSNSTA 112
Db 61 RLNFEEAKEACRRDGGQLVSTSEDEQKLEKFIENLLPSDGFWIGLRRRREEKQSNSTA 120
QY 113 CQDLYAWTDGSIQFRNWWYVDEPSCGSEVCVVMYHQPSAPAGIGGYPYMFQWNNDRCNMKN 172
Db 121 CQDLYAWTDGSIQFRNWWYVDEPSCGSEVCVVMYHQPSAPAGIGGYPYMFQWNNDRCNMKN 180
QY 173 NFICKYSDEKPAVPSREAEGETELTTPVLPEETOEEADAKKTFKESREAAALNLAYILIPS 232
Db 181 NFICKYSDEKPAVPSREAEGETELTTPVLPEETOEEADAKKTFKESREAAALNLAYILIPS 240
QY 233 IPLLLLLVVTTVVVCWWVICRKRREQDPDPSTKKQHTIWPSPHQGNSPDLEVNVIKQSE 292
Db 241 IPLLLLLVVTTVVVCWWVICRKRREQDPDPSTKKQHTIWPSPHQGNSPDLEVNVIKQSE 300
QY 293 ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFTNDIYE 352
Db 301 ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFTNDIYE 360
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RESULT 15

US-09-906-742-137
; Sequence 137, Application US/09906742
; Publication No. US20030023054A1
; GENERAL INFORMATION:

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; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Baton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/906,742
; CURRENT FILING DATE: 2001-07-16
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
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; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-906-742-137

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Query Match	99.3%;	Score 1986;	DB 10;	Length 382;
Best Local Similarity	97.9%;	Pred. No. 6.1e-178;		
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			Indels	8;
			Gaps	1;
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QY	53	RLNFEAAKEACRRDGGQLVSIESEDEQKLI EKFIENLLPSDGD F WIGLRRREEKQSNSTA	112	
Db	61	RLNFEAAKEACRRDGGQLVSIESEDEQKLI EKFIENLLPSDGD F WIGLRRREEKQSNSTA	120	
QY	113	QODLYAWTDGSI SQFRNMYVDPEPCSGSEVCVMYHQPSAPAGIGGPFYMFQWDDRCNMKN	172	
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QY	173	NFICKYSDEKPAVP SREAEGEETELTTPVLPEETQEDAKTKFESREAAALNLAYILPS	232	
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QY	233	IPLLLLLVTTVVVWVICRKRKREQDPDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSE	292	
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GenCore version 5.1.6
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OM protein - protein search, using sw.model

Run on: September 9, 2004, 22:21:36 ; Search time 417 Seconds
(without alignments)
875.405 Million cell updates/sec

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Perfect score: 2000
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Searched: 6019581 seqs, 976053577 residues

Total number of hits satisfying chosen parameters: 6019581

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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1	2000	100.0	374	1	PCT-US00-32990-15	Sequence 15, Appl
2	2000	100.0	374	1	PCT-US01-16450-2579	Sequence 2579, Ap
3	2000	100.0	374	1	PCT-US01-16450A-2579	Sequence 2579, Ap
4	2000	100.0	374	1	PCT-US03-26491-148	Sequence 148, App
5	2000	100.0	374	23	US-09-887-855-2	Sequence 2, Appli
6	2000	100.0	374	26	US-10-094-749-2090	Sequence 2090, Ap
7	2000	100.0	374	27	US-10-149-819-15	Sequence 15, Appl
8	2000	100.0	374	28	US-10-264-237-2579	Sequence 2579, Ap
9	2000	100.0	374	31	US-10-648-593-148	Sequence 148, App
10	2000	100.0	374	33	US-60-172-354-15	Sequence 15, Appl
11	1996	99.8	374	26	US-10-094-749-2142	Sequence 2142, Ap
12	1990	99.5	374	1	PCT-US99-17130-163	Sequence 163, App
13	1990	99.5	374	29	US-10-351-334-166	Sequence 166, App
14	1986	99.3	382	17	US-09-380-139A-137	Sequence 137, App
15	1986	99.3	382	18	US-09-423-844-137	Sequence 137, App
16	1986	99.3	382	20	US-09-664-610B-137	Sequence 137, App
17	1986	99.3	382	20	US-09-665-350-137	Sequence 137, App
18	1986	99.3	382	20	US-09-665-350B-137	Sequence 137, App
19	1986	99.3	382	24	US-09-902-572A-137	Sequence 137, App
20	1986	99.3	382	24	US-09-902-615-137	Sequence 137, App
21	1986	99.3	382	24	US-09-902-634-137	Sequence 137, App
22	1986	99.3	382	24	US-09-902-634A-137	Sequence 137, App
23	1986	99.3	382	24	US-09-902-654-137	Sequence 137, App
24	1986	99.3	382	24	US-09-902-692-137	Sequence 137, App
25	1986	99.3	382	24	US-09-902-713-137	Sequence 137, App
26	1986	99.3	382	24	US-09-902-713B-137	Sequence 137, App
27	1986	99.3	382	24	US-09-902-736-137	Sequence 137, App
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31	1986	99.3	382	24	US-09-902-853A-137	Sequence 137, App
32	1986	99.3	382	24	US-09-902-903-137	Sequence 137, App
33	1986	99.3	382	24	US-09-902-979-137	Sequence 137, App
34	1986	99.3	382	24	US-09-902-979A-137	Sequence 137, App
35	1986	99.3	382	24	US-09-903-520-137	Sequence 137, App
36	1986	99.3	382	24	US-09-903-520A-137	Sequence 137, App
37	1986	99.3	382	24	US-09-903-562-137	Sequence 137, App
38	1986	99.3	382	24	US-09-903-562A-137	Sequence 137, App
39	1986	99.3	382	24	US-09-903-562B-137	Sequence 137, App
40	1986	99.3	382	24	US-09-903-603A-137	Sequence 137, App
41	1986	99.3	382	24	US-09-903-640-137	Sequence 137, App
42	1986	99.3	382	24	US-09-903-640A-137	Sequence 137, App
43	1986	99.3	382	24	US-09-903-663-137	Sequence 137, App
44	1986	99.3	382	24	US-09-903-663A-137	Sequence 137, App
45	1986	99.3	382	24	US-09-903-749A-137	Sequence 137, App

ALIGNMENTS

RESULT 1
PCT-US00-32990-15
; Sequence 15, Application PC/TUS0032990
; GENERAL INFORMATION:
; APPLICANT: INCYTE GENOMICS, INC.
; APPLICANT: YUE, Henry
; APPLICANT: AZIMZAI, Yalda
; APPLICANT: TANG, Y. Tom
; APPLICANT: PATTERSON, Chandra
; APPLICANT: BAUGHN, Mariah R.
; APPLICANT: LU, Dyung Aina M.
; APPLICANT: SHAH, Purvi
; APPLICANT: LAL, Preeti
; APPLICANT: AU-YOUNG, Janice
; APPLICANT: BURFORD, Neil
; TITLE OF INVENTION: EXTRACELLULAR MATRIX AND CELL ADHESION MOLECULES
; FILE REFERENCE: PF-0760 PCT
; CURRENT APPLICATION NUMBER: PCT/US00/32990
; CURRENT FILING DATE: 2000-12-05
; PRIOR APPLICATION NUMBER: 60/172,852; 60/172,354
; PRIOR FILING DATE: 1999-12-10; 1999-12-16
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: PERL Program

; SEQ ID NO 15
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No: 3143411CD1
PCT-US00-32990-15

Query Match 100.0%; Score 2000; DB 1; Length 374;
Best Local Similarity 100.0%; Pred. No. 3.4e-184;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA131PCT
; CURRENT APPLICATION NUMBER: PCT/US01/16450
; CURRENT FILING DATE: 2001-06-01
; PRIOR APPLICATION NUMBER: 60/205,515
; PRIOR FILING DATE: 2000-05-19
; NUMBER OF SEQ ID NOS: 2820
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2579
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; ORGANISM: Homo sapiens
PCT-US01-16450-2579

Query Match 100.0%; Score 2000; DB 1; Length 374;
Best Local Similarity 100.0%; Pred. No. 3.4e-184;
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QY 181 EKPAPVSRREAEGETELTTPVLPETQEEADAKTKFKESREAAALNLAAYILIPSLPLLLLV 240
Db 181 EKPAPVSRREAEGETELTTPVLPETQEEADAKTKFKESREAAALNLAAYILIPSLPLLLLV 240
QY 241 VTTVVCWWVICRKRKREQDPDPSTKKQHTIWPSPHQGNSPDLEVVNVIRKQSEADLAETRP 300
Db 241 VTTVVCWWVICRKRKREQDPDPSTKKQHTIWPSPHQGNSPDLEVVNVIRKQSEADLAETRP 300
QY 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYEFSPDQMG 360
Db 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYEFSPDQMG 360
QY 361 SKESGWVENEIYGY 374
Db 361 SKESGWVENEIYGY 374

RESULT 3
PCT-US01-16450A-2579
; Sequence 2579, Application PC/TUS0116450A
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA131PCT
; CURRENT APPLICATION NUMBER: PCT/US01/16450A
; CURRENT FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: 60/205,515
; PRIOR FILING DATE: 2000-05-19
; NUMBER OF SEQ ID NOS: 2820
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2579
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
PCT-US01-16450A-2579

Query Match 100.0%; Score 2000; DB 1; Length 374;
Best Local Similarity 100.0%; Pred. No. 3.4e-184;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCYKVIYFHDTSRLNFEAK 60
Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCYKVIYFHDTSRLNFEAK 60
QY 61 EACRRDGGQLVSIIESEDEQKLIIEKFIENLLPSDGDGFWIGLRRRREKQSNSTACQDLYAWT 120
Db 61 EACRRDGGQLVSIIESEDEQKLIIEKFIENLLPSDGDGFWIGLRRRREKQSNSTACQDLYAWT 120
QY 121 DGSISQFRNWWYVDEPSCGSEVGVVYHQPSPAPAGIGGPMFQWDDRCNMKNFICKYSD 180
Db 121 DGSISQFRNWWYVDEPSCGSEVGVVYHQPSPAPAGIGGPMFQWDDRCNMKNFICKYSD 180
QY 181 EKPAPVSRREAEGETELTTPVLPETQEEADAKTKFKESREAAALNLAAYILIPSLPLLLLV 240
Db 181 EKPAPVSRREAEGETELTTPVLPETQEEADAKTKFKESREAAALNLAAYILIPSLPLLLLV 240
QY 241 VTTVVCWWVICRKRKREQDPDPSTKKQHTIWPSPHQGNSPDLEVVNVIRKQSEADLAETRP 300
Db 241 VTTVVCWWVICRKRKREQDPDPSTKKQHTIWPSPHQGNSPDLEVVNVIRKQSEADLAETRP 300
QY 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYEFSPDQMG 360
Db 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYEFSPDQMG 360
QY 361 SKESGWVENEIYGY 374
Db 361 SKESGWVENEIYGY 374

RESULT 4
PCT-US03-26491-148
; Sequence 148, Application PC/TUS0326491
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: IDENTIFICATION OF GENES FOR PREDICTING ACTIVITY OF COMPOUNDS THAT
; INTERACT WITH AND/OR MODULATE PROTEIN TYROSINE KINASES AND/OR
; TITLE OF INVENTION: PROTEIN TYROSINE KINASE PATHWAYS IN BREAST CELLS
; FILE REFERENCE: D0273 PCT
; CURRENT APPLICATION NUMBER: PCT/US03/26491
; CURRENT FILING DATE: 2003-08-26
; PRIOR APPLICATION NUMBER: 60/406,385
; PRIOR FILING DATE: 2002-08-27
; NUMBER OF SEQ ID NOS: 557
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 148
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
PCT-US03-26491-148

Query Match 100.0%; Score 2000; DB 1; Length 374;
Best Local Similarity 100.0%; Pred. No. 3.4e-184;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEAK	60
Db	1	MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEAK	60
QY	61	EACRRDGGQLVSI ESEDEQKLI EKFIENLLPSDGFWIGLRRRREKQSNSTACQDLYAWT	120
Db	61	EACRRDGGQLVSI ESEDEQKLI EKFIENLLPSDGFWIGLRRRREKQSNSTACQDLYAWT	120
QY	121	DGSIQFRNWWYVDEPSCGSEVCVVMYHQPSPAPAGIGGPPYMFQWDDRCNMKNFICKYSD	180
Db	121	DGSIQFRNWWYVDEPSCGSEVCVVMYHQPSPAPAGIGGPPYMFQWDDRCNMKNFICKYSD	180
QY	181	EKPAVPSREAEGETELTTPVLPEETQEEADAKTFKESREAAALNLAYILIPSIPLLLLLV	240
Db	181	EKPAVPSREAEGETELTTPVLPEETQEEADAKTFKESREAAALNLAYILIPSIPLLLLLV	240
QY	241	VTTVVCWWVICRKRKREQDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSEADLAETRP	300
Db	241	VTTVVCWWVICRKRKREQDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSEADLAETRP	300
QY	301	DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFTNDIYEFSPDQMG	360
Db	301	DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFTNDIYEFSPDQMG	360
QY	361	SKESGWVENEIYGY 374	
Db	361	SKESGWVENEIYGY 374	

RESULT 5
US-09-887-855-2
; Sequence 2, Application US/09887855
; GENERAL INFORMATION:
; APPLICANT: Immunex Corporation
; APPLICANT: Anderson, Dirk M
; TITLE OF INVENTION: LECTIN SS3939 DNA AND POLYPEPTIDES
; FILE REFERENCE: 2883-US
; CURRENT APPLICATION NUMBER: US/09/887,855
; CURRENT FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-887-855-2

Query Match 100.0%; Score 2000; DB 23; Length 374;

QY	1	MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEAK	60
Db	1	MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEAK	60
QY	61	EACRRDGGQLVSI ESEDEQKLI EKFIENLLPSDGFWIGLRRRREKQSNSTACQDLYAWT	120
Db	61	EACRRDGGQLVSI ESEDEQKLI EKFIENLLPSDGFWIGLRRRREKQSNSTACQDLYAWT	120
QY	121	DGSIQFRNWWYVDEPSCGSEVCVVMYHQPSPAPAGIGGPPYMFQWDDRCNMKNFICKYSD	180
Db	121	DGSIQFRNWWYVDEPSCGSEVCVVMYHQPSPAPAGIGGPPYMFQWDDRCNMKNFICKYSD	180
QY	181	EKPAVPSREAEGETELTTPVLPEETQEEADAKTFKESREAAALNLAYILIPSIPLLLLLV	240
Db	181	EKPAVPSREAEGETELTTPVLPEETQEEADAKTFKESREAAALNLAYILIPSIPLLLLLV	240
QY	241	VTTVVCWWVICRKRKREQDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSEADLAETRP	300
Db	241	VTTVVCWWVICRKRKREQDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSEADLAETRP	300
QY	301	DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFTNDIYEFSPDQMG	360
Db	301	DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFTNDIYEFSPDQMG	360
QY	361	SKESGWVENEIYGY 374	
Db	361	SKESGWVENEIYGY 374	

RESULT 6
US-10-094-749-2090
; Sequence 2090, Application US/10094749
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: NOVEL FULL-LENGTH CDNA
; FILE REFERENCE: 084335/0160
; CURRENT APPLICATION NUMBER: US/10/094,749
; CURRENT FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 60/350,435
; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: JP 2001-328381
; PRIOR FILING DATE: 2001-09-14
; NUMBER OF SEQ ID NOS: 3381
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2090
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-094-749-2090

Query Match 100.0%; Score 2000; DB 26; Length 374;
Best Local Similarity 100.0%; Pred. No. 3.4e-184;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCVKVIYFHDTSRRLNFEAK 60
 Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCVKVIYFHDTSRRLNFEAK 60
 QY 61 EACRRDGGQLVSIIESEDEQKLEKFIENLLPSDGDGFWIGLRRREEKQSNSTACODLYAWT 120
 Db 61 EACRRDGGQLVSIIESEDEQKLEKFIENLLPSDGDGFWIGLRRREEKQSNSTACODLYAWT 120
 QY 121 DGSISQFRNWWYVDEPSCGSEVGVVVMYHQPAPAGIGGYPYFQWNNDRCNMKNFICKYSD 180
 Db 121 DGSISQFRNWWYVDEPSCGSEVGVVVMYHQPAPAGIGGYPYFQWNNDRCNMKNFICKYSD 180
 QY 181 EKPAPVPSREAEGETELTTPVLPEETQEDAKKTFKESREAAALNLAYILIPSIPLLLLLV 240
 Db 181 EKPAPVPSREAEGETELTTPVLPEETQEDAKKTFKESREAAALNLAYILIPSIPLLLLLV 240
 QY 241 VTTVVCWVWICRKRKREQDPDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSEADLAETRP 300
 Db 241 VTTVVCWVWICRKRKREQDPDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSEADLAETRP 300
 QY 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYFSPDQMG 360
 Db 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYFSPDQMG 360
 QY 361 SKESGWVENEIYGY 374
 Db 361 SKESGWVENEIYGY 374

RESULT 7

US-10-149-819-15
 ; Sequence 15, Application US/10149819
 ; GENERAL INFORMATION:
 ; APPLICANT: INCYTE GENOMICS, INC.
 ; APPLICANT: YUE, Henry
 ; APPLICANT: AZIMZAI, Yalda
 ; APPLICANT: TANG, Y. Tom
 ; APPLICANT: PATTERSON, Chandra
 ; APPLICANT: BAUGHN, Mariah R.
 ; APPLICANT: LU, Dyung Aina M.
 ; APPLICANT: SHAH, Purvi
 ; APPLICANT: LAL, Preeti
 ; APPLICANT: AU-YOUNG, Janice
 ; APPLICANT: BURFORD, Neil
 ; TITLE OF INVENTION: EXTRACELLULAR MATRIX AND CELL ADHESION MOLECULES
 ; FILE REFERENCE: PF-0760 PCT
 ; CURRENT APPLICATION NUMBER: US/10/149,819
 ; CURRENT FILING DATE: 2002-06-10
 ; PRIOR APPLICATION NUMBER: 60/172,852; 60/172,354
 ; PRIOR FILING DATE: 1999-12-10; 1999-12-16
 ; NUMBER OF SEQ ID NOS: 42
 ; SOFTWARE: PERL Program
 ; SEQ ID NO 15
 ; LENGTH: 374
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; OTHER INFORMATION: Incyte ID No: 3143411CD1
 US-10-149-819-15

Query Match 100.0%; Score 2000; DB 27; Length 374;
 Best Local Similarity 100.0%; Pred. No. 3.4e-184;
 Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCVKVIYFHDTSRRLNFEAK 60
 Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCVKVIYFHDTSRRLNFEAK 60
 QY 61 EACRRDGGQLVSIIESEDEQKLEKFIENLLPSDGDGFWIGLRRREEKQSNSTACODLYAWT 120
 Db 61 EACRRDGGQLVSIIESEDEQKLEKFIENLLPSDGDGFWIGLRRREEKQSNSTACODLYAWT 120

QY 121 DGSISQFRNWWYVDEPSCGSEVGVVVMYHQPAPAGIGGYPYFQWNNDRCNMKNFICKYSD 180
 Db 121 DGSISQFRNWWYVDEPSCGSEVGVVVMYHQPAPAGIGGYPYFQWNNDRCNMKNFICKYSD 180
 QY 181 EKPAPVPSREAEGETELTTPVLPEETQEDAKKTFKESREAAALNLAYILIPSIPLLLLLV 240
 Db 181 EKPAPVPSREAEGETELTTPVLPEETQEDAKKTFKESREAAALNLAYILIPSIPLLLLLV 240
 QY 241 VTTVVCWVWICRKRKREQDPDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSEADLAETRP 300
 Db 241 VTTVVCWVWICRKRKREQDPDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSEADLAETRP 300
 QY 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYFSPDQMG 360
 Db 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYFSPDQMG 360
 QY 361 SKESGWVENEIYGY 374
 Db 361 SKESGWVENEIYGY 374

RESULT 8

US-10-264-237-2579
 ; Sequence 2579, Application US/10264237
 ; GENERAL INFORMATION:
 ; APPLICANT: Birse et al.
 ; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
 ; FILE REFERENCE: PA131P1
 ; CURRENT APPLICATION NUMBER: US/10/264,237
 ; CURRENT FILING DATE: 2002-10-04
 ; PRIOR APPLICATION NUMBER: PCT/US01/16450
 ; PRIOR FILING DATE: 2001-05-18
 ; PRIOR APPLICATION NUMBER: US 60/205,515
 ; PRIOR FILING DATE: 2000-05-19
 ; NUMBER OF SEQ ID NOS: 2876
 ; SOFTWARE: PatentIn Ver. 3.1
 ; SEQ ID NO 2579
 ; LENGTH: 374
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-264-237-2579

Query Match 100.0%; Score 2000; DB 28; Length 374;
 Best Local Similarity 100.0%; Pred. No. 3.4e-184;
 Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCVKVIYFHDTSRRLNFEAK 60
 Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCVKVIYFHDTSRRLNFEAK 60
 QY 61 EACRRDGGQLVSIIESEDEQKLEKFIENLLPSDGDGFWIGLRRREEKQSNSTACODLYAWT 120
 Db 61 EACRRDGGQLVSIIESEDEQKLEKFIENLLPSDGDGFWIGLRRREEKQSNSTACODLYAWT 120
 QY 121 DGSISQFRNWWYVDEPSCGSEVGVVVMYHQPAPAGIGGYPYFQWNNDRCNMKNFICKYSD 180
 Db 121 DGSISQFRNWWYVDEPSCGSEVGVVVMYHQPAPAGIGGYPYFQWNNDRCNMKNFICKYSD 180
 QY 181 EKPAPVPSREAEGETELTTPVLPEETQEDAKKTFKESREAAALNLAYILIPSIPLLLLLV 240
 Db 181 EKPAPVPSREAEGETELTTPVLPEETQEDAKKTFKESREAAALNLAYILIPSIPLLLLLV 240
 QY 241 VTTVVCWVWICRKRKREQDPDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSEADLAETRP 300
 Db 241 VTTVVCWVWICRKRKREQDPDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSEADLAETRP 300
 QY 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYFSPDQMG 360
 Db 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYFSPDQMG 360
 QY 361 SKESGWVENEIYGY 374

Db 361 SKESGWVENEIYGY 374

RESULT 9

US-10-648-593-148
 ; Sequence 148, Application US/10648593
 ; GENERAL INFORMATION:
 ; APPLICANT: Bristol-Myers Squibb Company
 ; TITLE OF INVENTION: IDENTIFICATION OF GENES FOR PREDICTING ACTIVITY OF COMPOUNDS THAT
 ; TITLE OF INVENTION: INTERACT WITH AND/OR MODULATE PROTEIN TYROSINE KINASES AND/OR
 ; TITLE OF INVENTION: PROTEIN TYROSINE KINASE PATHWAYS IN BREAST CELLS
 ; FILE REFERENCE: D0273 NP
 ; CURRENT APPLICATION NUMBER: US/10/648,593
 ; CURRENT FILING DATE: 2003-08-26
 ; PRIOR APPLICATION NUMBER: 60/406,385
 ; PRIOR FILING DATE: 2002-08-27
 ; NUMBER OF SEQ ID NOS: 557
 ; SOFTWARE: PatentIn version 3.2
 ; SEQ ID NO 148
 ; LENGTH: 374
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-648-593-148

Query Match 100.0%; Score 2000; DB 31; Length 374;
 Best Local Similarity 100.0%; Pred. No. 3.4e-184;
 Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQVCRGGTQPCYKVIYFHDTSRRLNFEAK 60
 Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQVCRGGTQPCYKVIYFHDTSRRLNFEAK 60
 QY 61 EACRRDGGQLVSIIESEDEQKLIKFIENLLPSDGFWIGLRRRREKQSNSTACQDLYAWT 120
 Db 61 EACRRDGGQLVSIIESEDEQKLIKFIENLLPSDGFWIGLRRRREKQSNSTACQDLYAWT 120
 QY 121 DGSISQFRNMYVDEPSCGSEVCVVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFICKYSD 180
 Db 121 DGSISQFRNMYVDEPSCGSEVCVVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFICKYSD 180
 QY 181 EKPAVPSREAEGETELTTPVLPEETQEEADAKTKFKESREAAALNLAYILIPSIPLLLLLV 240
 Db 181 EKPAVPSREAEGETELTTPVLPEETQEEADAKTKFKESREAAALNLAYILIPSIPLLLLLV 240
 QY 241 VTTVVCWVICRKRREQPDSTKKQHTIWPSPHQNSPDLEVNVIKQSEADLAETRP 300
 Db 241 VTTVVCWVICRKRREQPDSTKKQHTIWPSPHQNSPDLEVNVIKQSEADLAETRP 300
 QY 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFTNDIYEFSPDQMGR 360
 Db 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFTNDIYEFSPDQMGR 360
 QY 361 SKESGWVENEIYGY 374
 Db 361 SKESGWVENEIYGY 374

RESULT 10

US-60-172-354-15
 ; Sequence 15, Application US/60172354
 ; GENERAL INFORMATION:
 ; APPLICANT: Yue, Henry
 ; APPLICANT: Tang, Y. Tom
 ; APPLICANT: Lal, Preeti
 ; APPLICANT: Burford, Neil
 ; APPLICANT: Azimzai, Yalda
 ; APPLICANT: Patterson, Chandra
 ; APPLICANT: Baughn, Mariah R.
 ; APPLICANT: Lu, Dyung Aina M.
 ; APPLICANT: Shah, Purvi
 ; APPLICANT: Au-Young, Janice
 ; TITLE OF INVENTION: EXTRACELLULAR MATRIX AND CELL ADHESION MOLECULES
 ; FILE REFERENCE: PF-0760 P

; CURRENT APPLICATION NUMBER: US/60/172,354
 ; CURRENT FILING DATE: 1999-12-16
 ; NUMBER OF SEQ ID NOS: 40
 ; SOFTWARE: PERL Program
 ; SEQ ID NO 15
 ; LENGTH: 374
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; OTHER INFORMATION: Incyte Identifier No: 3143411CD1
 US-60-172-354-15

Query Match 100.0%; Score 2000; DB 33; Length 374;
 Best Local Similarity 100.0%; Pred. No. 3.4e-184;
 Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQVCRGGTQPCYKVIYFHDTSRRLNFEAK 60
 Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQVCRGGTQPCYKVIYFHDTSRRLNFEAK 60
 QY 61 EACRRDGGQLVSIIESEDEQKLIKFIENLLPSDGFWIGLRRRREKQSNSTACQDLYAWT 120
 Db 61 EACRRDGGQLVSIIESEDEQKLIKFIENLLPSDGFWIGLRRRREKQSNSTACQDLYAWT 120
 QY 121 DGSISQFRNMYVDEPSCGSEVCVVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFICKYSD 180
 Db 121 DGSISQFRNMYVDEPSCGSEVCVVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFICKYSD 180
 QY 181 EKPAVPSREAEGETELTTPVLPEETQEEADAKTKFKESREAAALNLAYILIPSIPLLLLLV 240
 Db 181 EKPAVPSREAEGETELTTPVLPEETQEEADAKTKFKESREAAALNLAYILIPSIPLLLLLV 240
 QY 241 VTTVVCWVICRKRREQPDSTKKQHTIWPSPHQNSPDLEVNVIKQSEADLAETRP 300
 Db 241 VTTVVCWVICRKRREQPDSTKKQHTIWPSPHQNSPDLEVNVIKQSEADLAETRP 300
 QY 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFTNDIYEFSPDQMGR 360
 Db 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFTNDIYEFSPDQMGR 360
 QY 361 SKESGWVENEIYGY 374
 Db 361 SKESGWVENEIYGY 374

RESULT 11

US-10-094-749-2142
 ; Sequence 2142, Application US/10094749
 ; GENERAL INFORMATION:
 ; APPLICANT: ISOGAI, TAKAO
 ; APPLICANT: SUGIYAMA, TOMOYASU
 ; APPLICANT: OTSUKI, TETSUJI
 ; APPLICANT: WAKAMATSU, AI
 ; APPLICANT: SATO, HIROYUKI
 ; APPLICANT: ISHII, SHIZUKO
 ; APPLICANT: YAMAMOTO, JUN-ICHI
 ; APPLICANT: ISONO, YUUKO
 ; APPLICANT: HIO, YURI
 ; APPLICANT: OTSUKA, KAORU
 ; APPLICANT: NAGAI, KEIICHI
 ; APPLICANT: IRIE, RYOTARO
 ; APPLICANT: TAMECHIKA, ICHIRO
 ; APPLICANT: SEKI, NAOHICO
 ; APPLICANT: YOSHIKAWA, TSUTOMU
 ; APPLICANT: OTSUKA, MOTOYUKI
 ; APPLICANT: NAGAHARI, KENJI
 ; APPLICANT: MASUHO, YASUHIKO
 ; TITLE OF INVENTION: NOVEL FULL-LENGTH CDNA
 ; FILE REFERENCE: 084335/0160
 ; CURRENT APPLICATION NUMBER: US/10/094,749
 ; CURRENT FILING DATE: 2002-03-12
 ; PRIOR APPLICATION NUMBER: 60/350,435

; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: JP 2001-328381
; PRIOR FILING DATE: 2001-09-14
; NUMBER OF SEQ ID NOS: 3381
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2142
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-094-749-2142

Query Match 99.8%; Score 1996; DB 26; Length 374;
Best Local Similarity 99.7%; Pred. No. 8.4e-184;
Matches 373; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQRPCYKVIYFHDTSRRLNFEAK 60
Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQRPCYKVIYFHDTSRRLNFEAK 60

QY 61 EACRRDGGQLVSIIESEDEQKLIETIENLLPSDGDGFWIGLRRREKQSNSTACQDLYAWT 120
Db 61 EACRRDGGQLVSIIESEDEQKLIETIENLLPSDGDGFWIGLRRREKQSNSTACQDLYAWT 120

QY 121 DGSISQFRNWWYVDEPSCGSEVGVVVMYHQPAPAGIGGPPYMFQWDDRCNMKNPFICKYSD 180
Db 121 DGSISQFRNWWYVDEPSCGSEVGVVVMYHQPAPAGIGGPPYMFQWDDRCNMKNPFICKYSD 180

QY 181 EKPAVPSREAEGETELTTPVLPPEETQEEDAKTKFKESREAAALNLAYILIPSIPLLLLLV 240
Db 181 EKPAVPSREAEGETELTTPVLPPEETQEEDAKTKFKESREAAALNLAYILIPSIPLLLLLV 240

QY 241 VTTVVCVWVICRKRKREQPDSTKKQHTIWSPHOGNSPDLEVYNVIRKQSEADLAETRP 300
Db 241 VTTVVCVWVICRKRKREQPDSTKKQHTIWSPHOGNSPDLEVYNVIRKQSEADLAETRP 300

QY 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYEFSPDQMGR 360
Db 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYEFSPDQMGR 360

QY 361 SKESGWVENEIYGY 374
Db 361 SKESGWVENEIYGY 374

RESULT 12
PCT-US99-17130-163
; Sequence 163, Application PC/TUS9917130
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: PZ031.PCT
; CURRENT APPLICATION NUMBER: PCT/US99/17130
; CURRENT FILING DATE: 1999-07-29
; EARLIER APPLICATION NUMBER: 60/094,657
; EARLIER FILING DATE: 1998-07-30
; EARLIER APPLICATION NUMBER: 60/095,486
; EARLIER FILING DATE: 1998-08-05
; EARLIER APPLICATION NUMBER: 60/095,455
; EARLIER FILING DATE: 1998-08-06
; EARLIER APPLICATION NUMBER: 60/095,454
; EARLIER FILING DATE: 1998-08-06
; EARLIER APPLICATION NUMBER: 60/096,319
; EARLIER FILING DATE: 1998-08-12
; NUMBER OF SEQ ID NOS: 364
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 163
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (84)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids

; FEATURE:
; NAME/KEY: SITE
; LOCATION: (112)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
PCT-US99-17130-163

Query Match 99.5%; Score 1990; DB 1; Length 374;
Best Local Similarity 99.5%; Pred. No. 3.2e-183;
Matches 372; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQRPCYKVIYFHDTSRRLNFEAK 60
Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQRPCYKVIYFHDTSRRLNFEAK 60

QY 61 EACRRDGGQLVSIIESEDEQKLIETIENLLPSDGDGFWIGLRRREKQSNSTACQDLYAWT 120
Db 61 EACRRDGGQLVSIIESEDEQKLIETIENLLPSDGDGFWIGLRRREKQSNSTACQDLYAWT 120

QY 121 DGSISQFRNWWYVDEPSCGSEVGVVVMYHQPAPAGIGGPPYMFQWDDRCNMKNPFICKYSD 180
Db 121 DGSISQFRNWWYVDEPSCGSEVGVVVMYHQPAPAGIGGPPYMFQWDDRCNMKNPFICKYSD 180

QY 181 EKPAVPSREAEGETELTTPVLPPEETQEEDAKTKFKESREAAALNLAYILIPSIPLLLLLV 240
Db 181 EKPAVPSREAEGETELTTPVLPPEETQEEDAKTKFKESREAAALNLAYILIPSIPLLLLLV 240

QY 241 VTTVVCVWVICRKRKREQPDSTKKQHTIWSPHOGNSPDLEVYNVIRKQSEADLAETRP 300
Db 241 VTTVVCVWVICRKRKREQPDSTKKQHTIWSPHOGNSPDLEVYNVIRKQSEADLAETRP 300

QY 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYEFSPDQMGR 360
Db 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYEFSPDQMGR 360

QY 361 SKESGWVENEIYGY 374
Db 361 SKESGWVENEIYGY 374

RESULT 13
US-10-351-334-166
; Sequence 166, Application US/10351334
; GENERAL INFORMATION:
; APPLICANT: Komatsoulis et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: PZ031P2
; CURRENT APPLICATION NUMBER: US/10/351,334
; CURRENT FILING DATE: 2003-01-27
; PRIOR APPLICATION NUMBER: 60/350,898
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/489,847
; PRIOR FILING DATE: 2000-01-24
; PRIOR APPLICATION NUMBER: PCT/US99/17130
; PRIOR FILING DATE: 1999-07-29
; PRIOR APPLICATION NUMBER: 60/094,657
; PRIOR FILING DATE: 1998-07-30
; PRIOR APPLICATION NUMBER: 60/095,486
; PRIOR FILING DATE: 1998-08-05
; PRIOR APPLICATION NUMBER: 60/096,319
; PRIOR FILING DATE: 1998-08-12
; PRIOR APPLICATION NUMBER: 60/095,454
; PRIOR FILING DATE: 1998-08-06
; PRIOR APPLICATION NUMBER: 60/095,455
; PRIOR FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 166
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (84)

OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
FEATURE:
NAME/KEY: SITE
LOCATION: (112)
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-10-351-334-166

Query Match 99.5%; Score 1990; DB 29; Length 374;
Best Local Similarity 99.5%; Pred. No. 3.2e-183;
Matches 372; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQRPCKYKVIYFHDTSRRLNFEEAK 60
Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQRPCKYKVIYFHDTSRRLNFEEAK 60
QY 61 EACRDGGQLVSI ESEDEQKLI EKFIENLLPSDGFWIGLRRRREEKQSNSTACQDLYAWT 120
Db 61 EACRDGGQLVSI ESEDEQKLI EKFIENLLPSDGFWIGLRRRREEKQSNSTACQDLYAWT 120
QY 121 DGSISQFRNWWYVDEPSCGSEVCVVMYHQPSAPAGIGGPFQWNDRCNMKNFICKYSD 180
Db 121 DGSISQFRNWWYVDEPSCGSEVCVVMYHQPSAPAGIGGPFQWNDRCNMKNFICKYSD 180
QY 181 EKPAVPSREAEGETELTTPVLPEETOEDAKKTFKESREAAALNLAYILIPSLLLLV 240
Db 181 EKPAVPSREAEGETELTTPVLPEETOEDAKKTFKESREAAALNLAYILIPSLLLLV 240
QY 241 VTTVVCWWICRKRKREQDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSEADLAETRP 300
Db 241 VTTVVCWWICRKRKREQDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSEADLAETRP 300
QY 301 DLKNI SFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVEGFTNDIYEFSPDQMR 360
Db 301 DLKNI SFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVEGFTNDIYEFSPDQMR 360
QY 361 SKESGWVENEIYGY 374
Db 361 SKESGWVENEIYGY 374

RESULT 14
US-09-380-139A-137
; Sequence 137, Application US/09380139A
; GENERAL INFORMATION:
; APPLICANT: GENENTECH, INC. et al.
; APPLICANT: Chen, Jian
; APPLICANT: Goddard, Audrey
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pennica, Diane
; APPLICANT: Wood, William I.
; APPLICANT: Yuan, Jean
; TITLE OF INVENTION: NOVEL POLYPEPTIDES AND NUCLEIC ACIDS ENCODING THE SAME
; FILE REFERENCE: 10466-04
; CURRENT APPLICATION NUMBER: US/09/380,139A
; PRIOR FILING DATE: 1999-08-25
; PRIOR APPLICATION NUMBER: PCT/US 98/19330
; PRIOR FILING DATE: 1998-09-16
; NUMBER OF SEQ ID NOS: 379
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-380-139A-137

Query Match 99.3%; Score 1986; DB 17; Length 382;
Best Local Similarity 97.9%; Pred. No. 8.1e-183;
Matches 374; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLS-----GQPVCRGGTQRPCKYKVIYFHDTSR 52
Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSASDLRLGGQPVCRGGTQRPCKYKVIYFHDTSR 60
QY 53 RLNFEEAKEACRRDGGQLVSI ESEDEQKLI EKFIENLLPSDGFWIGLRRRREEKQSNSTA 112

Db 61 RLNFEEAKEACRRDGGQLVSI ESEDEQKLI EKFIENLLPSDGFWIGLRRRREEKQSNSTA 120
QY 113 CQDLYAWTDGSI SQRNWWYVDEPSCGSEVCVVMYHQPSAPAGIGGPFQWNDRCNMKN 172
Db 121 CQDLYAWTDGSI SQRNWWYVDEPSCGSEVCVVMYHQPSAPAGIGGPFQWNDRCNMKN 180
QY 173 NFICKYSDEKPAVPSREAEGETELTTPVLPEETOEDAKKTFKESREAAALNLAYILIPS 232
Db 181 NFICKYSDEKPAVPSREAEGETELTTPVLPEETOEDAKKTFKESREAAALNLAYILIPS 240
QY 233 IPLLLLLVTTTVCWWICRKRKREQDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSE 292
Db 241 IPLLLLLVTTTVCWWICRKRKREQDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSE 300
QY 293 ADLAETRPDLKNI SFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVEGFTNDIYE 352
Db 301 ADLAETRPDLKNI SFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVEGFTNDIYE 360
QY 353 FSPDQMGRSKESGWVENEIYGY 374
Db 361 FSPDQMGRSKESGWVENEIYGY 382

RESULT 15
US-09-423-844-137
; Sequence 137, Application US/09423844
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Chen, Jian
; APPLICANT: Goddard, Audrey
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth
; APPLICANT: Pennica, Diane
; APPLICANT: Wood, William I.
; APPLICANT: Yuan, Jean
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P1618P1E
; CURRENT APPLICATION NUMBER: US/09/423,844
; CURRENT FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: 1998-09-16
; NUMBER OF SEQ ID NOS: 379
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-423-844-137

Query Match 99.3%; Score 1986; DB 18; Length 382;
Best Local Similarity 97.9%; Pred. No. 8.1e-183;
Matches 374; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLS-----GQPVCRGGTQRPCKYKVIYFHDTSR 52
Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSASDLRLGGQPVCRGGTQRPCKYKVIYFHDTSR 60
QY 53 RLNFEEAKEACRRDGGQLVSI ESEDEQKLI EKFIENLLPSDGFWIGLRRRREEKQSNSTA 112
Db 61 RLNFEEAKEACRRDGGQLVSI ESEDEQKLI EKFIENLLPSDGFWIGLRRRREEKQSNSTA 120
QY 113 CQDLYAWTDGSI SQRNWWYVDEPSCGSEVCVVMYHQPSAPAGIGGPFQWNDRCNMKN 172
Db 121 CQDLYAWTDGSI SQRNWWYVDEPSCGSEVCVVMYHQPSAPAGIGGPFQWNDRCNMKN 180
QY 173 NFICKYSDEKPAVPSREAEGETELTTPVLPEETOEDAKKTFKESREAAALNLAYILIPS 232
Db 181 NFICKYSDEKPAVPSREAEGETELTTPVLPEETOEDAKKTFKESREAAALNLAYILIPS 240
QY 233 IPLLLLLVTTTVCWWICRKRKREQDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSE 292

Db	241	IPLLLLLVTTVV	ICRKRREQDPSTKKQHTIWPSPHQNSPDLEVYNVIRKQSE	300		
Qy	293	ADLAETRPDLKNISFRVCSGEATPDDMS	CDYDNMAVNPSES	GFVTLVS	VESGFVTNDIYE	352
Db	301	ADLAETRPDLKNISFRVCSGEATPDDMS	CDYDNMAVNPSES	GFVTLVS	VESGFVTNDIYE	360
Qy	353	FSPDQMGRSKESGW	ENEIYGY	374		
Db	361	FSPDQMGRSKESGW	ENEIYGY	382		

Search completed: September 9, 2004, 22:30:43
Job time : 419 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 9, 2004, 22:38:59 ; Search time 128 Seconds
(without alignments)
516.110 Million cell updates/sec

Title: US-09-887-855-2_COPY_22_227
Perfect score: 1115
Sequence: 1 ATGRLLSGQPVCRGGTQRPC.....EEDAKKTFKESREAAALNLAY 206

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1335176 seqs, 320689617 residues

Total number of hits satisfying chosen parameters: 1335176

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 50 summaries

Database : Published Applications AA:*

1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep:*

2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*

3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*

4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep:*

5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep:*

6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep:*

7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep:*

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10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep:*

11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep:*

12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep:*

13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep:*

14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*

15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep:*

16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*

17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*

18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB	ID	Description
1	1115	100.0	206	9	US-09-887-855-5	Sequence 5, Appli
2	1115	100.0	374	9	US-09-887-855-2	Sequence 2, Appli
3	1115	100.0	374	14	US-10-149-819-15	Sequence 15, Appl
4	1115	100.0	374	15	US-10-094-749-2090	Sequence 2090, Ap
5	1115	100.0	374	15	US-10-264-237-2579	Sequence 2579, Ap
6	1115	100.0	374	16	US-10-648-593-148	Sequence 148, App
7	1115	100.0	387	12	US-10-296-115-1311	Sequence 1311, Ap
8	1111	99.6	374	15	US-10-094-749-2142	Sequence 2142, Ap
9	1105	99.1	374	12	US-10-351-334-166	Sequence 166, App
10	1101	98.7	382	9	US-09-909-320-137	Sequence 137, App
11	1101	98.7	382	9	US-09-909-088B-137	Sequence 137, App
12	1101	98.7	382	9	US-09-905-291A-137	Sequence 137, App
13	1101	98.7	382	9	US-09-902-853-137	Sequence 137, App
14	1101	98.7	382	9	US-09-907-824-137	Sequence 137, App
15	1101	98.7	382	9	US-09-907-841-137	Sequence 137, App

16	1101	98.7	382	10	US-09-904-011-137	Sequence 137, App
17	1101	98.7	382	10	US-09-906-742-137	Sequence 137, App
18	1101	98.7	382	10	US-09-906-838-137	Sequence 137, App
19	1101	98.7	382	10	US-09-907-613-137	Sequence 137, App
20	1101	98.7	382	10	US-09-907-942-137	Sequence 137, App
21	1101	98.7	382	10	US-09-904-859-137	Sequence 137, App
22	1101	98.7	382	10	US-09-909-204-137	Sequence 137, App
23	1101	98.7	382	10	US-09-904-820-137	Sequence 137, App
24	1101	98.7	382	10	US-09-904-786-137	Sequence 137, App
25	1101	98.7	382	10	US-09-906-646-137	Sequence 137, App
26	1101	98.7	382	10	US-09-906-700-137	Sequence 137, App
27	1101	98.7	382	10	US-09-903-786-137	Sequence 137, App
28	1101	98.7	382	10	US-09-902-903-137	Sequence 137, App
29	1101	98.7	382	10	US-09-903-749A-137	Sequence 137, App
30	1101	98.7	382	10	US-09-904-119-137	Sequence 137, App
31	1101	98.7	382	10	US-09-904-956-137	Sequence 137, App
32	1101	98.7	382	10	US-09-902-736-137	Sequence 137, App
33	1101	98.7	382	10	US-09-907-794-137	Sequence 137, App
34	1101	98.7	382	10	US-09-903-943-137	Sequence 137, App
35	1101	98.7	382	10	US-09-904-462-137	Sequence 137, App
36	1101	98.7	382	10	US-09-907-925-137	Sequence 137, App
37	1101	98.7	382	10	US-09-902-692-137	Sequence 137, App
38	1101	98.7	382	10	US-09-903-520-137	Sequence 137, App
39	1101	98.7	382	10	US-09-905-056-137	Sequence 137, App
40	1101	98.7	382	10	US-09-909-064-137	Sequence 137, App
41	1101	98.7	382	10	US-09-904-553-137	Sequence 137, App
42	1101	98.7	382	10	US-09-905-381-137	Sequence 137, App
43	1101	98.7	382	10	US-09-905-088-137	Sequence 137, App
44	1101	98.7	382	10	US-09-907-575-137	Sequence 137, App
45	1101	98.7	382	10	US-09-905-075-137	Sequence 137, App
46	1101	98.7	382	10	US-09-902-759-137	Sequence 137, App
47	1101	98.7	382	10	US-09-902-634-137	Sequence 137, App
48	1101	98.7	382	10	US-09-902-713-137	Sequence 137, App
49	1101	98.7	382	10	US-09-907-979-137	Sequence 137, App
50	1101	98.7	382	10	US-09-902-615-137	Sequence 137, App

ALIGNMENTS

RESULT 1
US-09-887-855-5
; Sequence 5, Application US/09887855
; Patent No. US20020058310A1
; GENERAL INFORMATION:
; APPLICANT: Immunex Corporation
; APPLICANT: Anderson, Dirk M
; TITLE OF INVENTION: LECTIN SS3939 DNA AND POLYPEPTIDES
; FILE REFERENCE: 2883-US
; CURRENT APPLICATION NUMBER: US/09/887,855
; CURRENT FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 206
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-887-855-5

Query Match	100.0%;	Score 1115;	DB 9;	Length 206;
Best Local Similarity	100.0%;	Pred. No. 1.5e-104;		
Matches 206;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	ATGRLLSGQPVCRGGTQRPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI	60	60
Db	1	ATGRLLSGQPVCRGGTQRPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI	60	60
QY	61	IEKFIENLLPSDGFWIGLRRRREKQSNSTACQDLYAWTDGSIQFRNWWYDEPSCGSEV	120	120
Db	61	IEKFIENLLPSDGFWIGLRRRREKQSNSTACQDLYAWTDGSIQFRNWWYDEPSCGSEV	120	120
QY	121	CVVMYHQPSAPAGIGGPFMFQWDDRCNMKNFICKYSDEKFAVPSREAGEETELTTPV	180	180

Db 121 CVVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFNICKYSDEKPAVPSREAEGETELTPV 180

Qy 181 LPEETQEEADAKTKFKESREAAALNLAY 206
Db 181 LPEETQEEADAKTKFKESREAAALNLAY 206

RESULT 2
US-09-887-855-2
; Sequence 2, Application US/09887855
; Patent No. US20020058310A1
; GENERAL INFORMATION:
; APPLICANT: Immunex Corporation
; APPLICANT: Anderson, Dirk M
; TITLE OF INVENTION: LECTIN SS3939 DNA AND POLYPEPTIDES
; FILE REFERENCE: 2883-US
; CURRENT APPLICATION NUMBER: US/09/887,855
; CURRENT FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 2
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-887-855-2

Query Match 100.0%; Score 1115; DB 9; Length 374;
Best Local Similarity 100.0%; Pred. No. 3.3e-104;
Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGRLLSGQPVCRCGGTQPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI ESEDEQKL 60
Db 22 ATGRLLSGQPVCRCGGTQPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI ESEDEQKL 81
Qy 61 IEKFIENLLPSDGDWIGLRRREEKQSNSTACODLYAWTDGSI SQFRNWWYDEPSCGSEV 120
Db 82 IEKFIENLLPSDGDWIGLRRREEKQSNSTACODLYAWTDGSI SQFRNWWYDEPSCGSEV 141
Qy 121 CVVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFNICKYSDEKPAVPSREAEGETELTPV 180
Db 142 CVVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFNICKYSDEKPAVPSREAEGETELTPV 201
Qy 181 LPEETQEEADAKTKFKESREAAALNLAY 206
Db 202 LPEETQEEADAKTKFKESREAAALNLAY 227

RESULT 3
US-10-149-819-15
; Sequence 15, Application US/10149819
; Publication No. US20030044913A1
; GENERAL INFORMATION:
; APPLICANT: INCYTE GENOMICS, INC.
; APPLICANT: YUE, Henry
; APPLICANT: AZIMZAI, Yalda
; APPLICANT: TANG, Y. Tom
; APPLICANT: PATTERSON, Chandra
; APPLICANT: BAUGHN, Mariah R.
; APPLICANT: LU, Dyung Aina M.
; APPLICANT: SHAH, Purvi
; APPLICANT: LAL, Preeti
; APPLICANT: AU-YOUNG, Janice
; APPLICANT: BURFORD, Neil
; TITLE OF INVENTION: EXTRACELLULAR MATRIX AND CELL ADHESION MOLECULES
; FILE REFERENCE: PF-0760 PCT
; CURRENT APPLICATION NUMBER: US/10/149,819
; CURRENT FILING DATE: 2002-06-10
; PRIOR APPLICATION NUMBER: 60/172,852; 60/172,354
; PRIOR FILING DATE: 1999-12-10; 1999-12-16
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: PERL Program
; SEQ ID NO 15
; LENGTH: 374

; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20030044913A1 3143411CD1
US-10-149-819-15

Query Match 100.0%; Score 1115; DB 14; Length 374;
Best Local Similarity 100.0%; Pred. No. 3.3e-104;
Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGRLLSGQPVCRCGGTQPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI ESEDEQKL 60
Db 22 ATGRLLSGQPVCRCGGTQPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI ESEDEQKL 81
Qy 61 IEKFIENLLPSDGDWIGLRRREEKQSNSTACODLYAWTDGSI SQFRNWWYDEPSCGSEV 120
Db 82 IEKFIENLLPSDGDWIGLRRREEKQSNSTACODLYAWTDGSI SQFRNWWYDEPSCGSEV 141
Qy 121 CVVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFNICKYSDEKPAVPSREAEGETELTPV 180
Db 142 CVVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFNICKYSDEKPAVPSREAEGETELTPV 201
Qy 181 LPEETQEEADAKTKFKESREAAALNLAY 206
Db 202 LPEETQEEADAKTKFKESREAAALNLAY 227

RESULT 4
US-10-094-749-2090
; Sequence 2090, Application US/10094749
; Publication No. US20030219741A1
; GENERAL INFORMATION:

; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHIKO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: NOVEL FULL-LENGTH CDNA
; FILE REFERENCE: 084335/0160
; CURRENT APPLICATION NUMBER: US/10/094,749
; CURRENT FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 60/350,435
; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: JP 2001-328381
; PRIOR FILING DATE: 2001-09-14
; NUMBER OF SEQ ID NOS: 3381
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 2090
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-094-749-2090

Query Match 100.0%; Score 1115; DB 15; Length 374;
Best Local Similarity 100.0%; Pred. No. 3.3e-104;
Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGRLLSGQPVCRCGGTQPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI ESEDEQKL 60

Db 22 ATGRLLSGQPVCRGGTQRPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI ESEDEQKL 81
QY 61 IEKFIENLLPSDGDGDFWIGLRRREEKQSNSTACQDLYAWTDGSI SQFRNWWYVDEPSCGSEV 120
Db 82 IEKFIENLLPSDGDGDFWIGLRRREEKQSNSTACQDLYAWTDGSI SQFRNWWYVDEPSCGSEV 141
QY 121 CVMYHQPAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGETELTPV 180
Db 142 CVMYHQPAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGETELTPV 201
QY 181 LPEETQEEADAKKTFKESREAAALNLAY 206
Db 202 LPEETQEEADAKKTFKESREAAALNLAY 227

RESULT 5
US-10-264-237-2579
; Sequence 2579, Application US/10264237
; Publication No. US20040009491A1
; GENERAL INFORMATION:
; APPLICANT: Birse et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PA131P1
; CURRENT APPLICATION NUMBER: US/10/264,237
; CURRENT FILING DATE: 2002-10-04
; PRIOR APPLICATION NUMBER: PCT/US01/16450
; PRIOR FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: US 60/205,515
; PRIOR FILING DATE: 2000-05-19
; NUMBER OF SEQ ID NOS: 2876
; SOFTWARE: PatentIn Ver. 3.1
; SEQ ID NO 2579
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-264-237-2579

Query Match 100.0%; Score 1115; DB 15; Length 374;
Best Local Similarity 100.0%; Pred. No. 3.3e-104;
Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATGRLLSGQPVCRGGTQRPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI ESEDEQKL 60
Db 22 ATGRLLSGQPVCRGGTQRPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI ESEDEQKL 81
QY 61 IEKFIENLLPSDGDGDFWIGLRRREEKQSNSTACQDLYAWTDGSI SQFRNWWYVDEPSCGSEV 120
Db 82 IEKFIENLLPSDGDGDFWIGLRRREEKQSNSTACQDLYAWTDGSI SQFRNWWYVDEPSCGSEV 141
QY 121 CVMYHQPAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGETELTPV 180
Db 142 CVMYHQPAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGETELTPV 201
QY 181 LPEETQEEADAKKTFKESREAAALNLAY 206
Db 202 LPEETQEEADAKKTFKESREAAALNLAY 227

RESULT 6
US-10-648-593-148
; Sequence 148, Application US/10648593
; Publication No. US20040106132A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: IDENTIFICATION OF GENES FOR PREDICTING ACTIVITY OF COMPOUNDS THAT
; TITLE OF INVENTION: INTERACT WITH AND/OR MODULATE PROTEIN TYROSINE KINASES AND/OR
; TITLE OF INVENTION: PROTEIN TYROSINE KINASE PATHWAYS IN BREAST CELLS
; FILE REFERENCE: D0273 NP
; CURRENT APPLICATION NUMBER: US/10/648,593
; CURRENT FILING DATE: 2003-08-26
; PRIOR APPLICATION NUMBER: 60/406,385
; PRIOR FILING DATE: 2002-08-27
; NUMBER OF SEQ ID NOS: 557

; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 148
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-648-593-148
Query Match 100.0%; Score 1115; DB 16; Length 374;
Best Local Similarity 100.0%; Pred. No. 3.3e-104;
Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATGRLLSGQPVCRGGTQRPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI ESEDEQKL 60
Db 22 ATGRLLSGQPVCRGGTQRPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI ESEDEQKL 81
QY 61 IEKFIENLLPSDGDGDFWIGLRRREEKQSNSTACQDLYAWTDGSI QFRNWWYVDEPSCGSEV 120
Db 82 IEKFIENLLPSDGDGDFWIGLRRREEKQSNSTACQDLYAWTDGSI QFRNWWYVDEPSCGSEV 141
QY 121 CVMYHQPAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGETELTPV 180
Db 142 CVMYHQPAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGETELTPV 201
QY 181 LPEETQEEADAKKTFKESREAAALNLAY 206
Db 202 LPEETQEEADAKKTFKESREAAALNLAY 227

RESULT 7
US-10-296-115-1311
; Sequence 1311, Application US/10296115
; Publication No. US20040053248A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq Inc
; TITLE OF INVENTION: No. US20040053248A1el Nucleic Acids and Polypeptides
; FILE REFERENCE: 784PCT
; CURRENT APPLICATION NUMBER: US/10/296,115
; CURRENT FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: US09/488,725
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: US09/552,317
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 1478
; SEQ ID NO 1311
; LENGTH: 387
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-296-115-1311

Query Match 100.0%; Score 1115; DB 12; Length 387;
Best Local Similarity 100.0%; Pred. No. 3.4e-104;
Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATGRLLSGQPVCRGGTQRPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI ESEDEQKL 60
Db 35 ATGRLLSGQPVCRGGTQRPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI ESEDEQKL 94
QY 61 IEKFIENLLPSDGDGDFWIGLRRREEKQSNSTACQDLYAWTDGSI QFRNWWYVDEPSCGSEV 120
Db 95 IEKFIENLLPSDGDGDFWIGLRRREEKQSNSTACQDLYAWTDGSI QFRNWWYVDEPSCGSEV 154
QY 121 CVMYHQPAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGETELTPV 180
Db 155 CVMYHQPAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGETELTPV 214
QY 181 LPEETQEEADAKKTFKESREAAALNLAY 206
Db 215 LPEETQEEADAKKTFKESREAAALNLAY 240

RESULT 8
US-10-094-749-2142
; Sequence 2142, Application US/10094749

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; Publication No. US20030219741A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: NOVEL FULL-LENGTH cDNA
; FILE REFERENCE: 084335/0160
; CURRENT APPLICATION NUMBER: US/10/094,749
; PRIOR FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 60/350,435
; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: JP 2001-328381
; PRIOR FILING DATE: 2001-09-14
; NUMBER OF SEQ ID NOS: 3381
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2142
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-094-749-2142

Query Match      99.6%; Score 1111; DB 15; Length 374;
Best Local Similarity 99.5%; Pred. No. 8.3e-104;
Matches 205; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1  ATGRLLSGQPVCRGGTQPCYKVIYFHDTSRLNFEEAKEACRRDGGQLVSI ESEDEQKL 60
      |||||||
Db      22  ATGRLLSGQPVCRGGTQPCYKVIYFHDTSRLNFEEAKEACRRDGGQLVSI ESEDEQKL 81

QY      61  IEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSGISQFRNWWYVDEPSCGSEV 120
      |||||||
Db      82  IEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSGISQFRNWWYVDEPSCGSEV 141

QY      121  CVVMYHQPSAPAGIGGPFYMFQWDDRCNMKNFNICKYSDEKPAVPSREAEGEETELTPV 180
      |||||||
Db      142  CVVMYHQPSAPAGIGGPFYMFQWDDRCNMKNFNICKYSDEKPAVPSREAEGEETELTPV 201

QY      181  LPEETQEEADAKTKFKESREAAALNLAY 206
      |||||||
Db      202  LPEETQEEADTKTKFKESREAAALNLAY 227

RESULT 9
US-10-351-334-166
; Sequence 166, Application US/10351334
; Publication No. US20040034196A1
; GENERAL INFORMATION:
; APPLICANT: Komatsoulis et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: PZ031P2
; CURRENT APPLICATION NUMBER: US/10/351,334
; CURRENT FILING DATE: 2003-01-27
; PRIOR APPLICATION NUMBER: 60/350,898
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/489,847
; PRIOR FILING DATE: 2000-01-24
; PRIOR APPLICATION NUMBER: PCT/US99/17130
; PRIOR FILING DATE: 1999-07-29

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; PRIOR APPLICATION NUMBER: 60/094,657
; PRIOR FILING DATE: 1998-07-30
; PRIOR APPLICATION NUMBER: 60/095,486
; PRIOR FILING DATE: 1998-08-05
; PRIOR APPLICATION NUMBER: 60/096,319
; PRIOR FILING DATE: 1998-08-12
; PRIOR APPLICATION NUMBER: 60/095,454
; PRIOR FILING DATE: 1998-08-06
; PRIOR APPLICATION NUMBER: 60/095,455
; PRIOR FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 166
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (84)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (112)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; US-10-351-334-166

Query Match      99.1%; Score 1105; DB 12; Length 374;
Best Local Similarity 99.0%; Pred. No. 3.4e-103;
Matches 204; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1  ATGRLLSGQPVCRGGTQPCYKVIYFHDTSRLNFEEAKEACRRDGGQLVSI ESEDEQKL 60
      |||||||
Db      22  ATGRLLSGQPVCRGGTQPCYKVIYFHDTSRLNFEEAKEACRRDGGQLVSI ESEDEQKL 81

QY      61  IEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSGISQFRNWWYVDEPSCGSEV 120
      |||||||
Db      82  IEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSGISQFRNWWYVDEPSCGSEV 141

QY      121  CVVMYHQPSAPAGIGGPFYMFQWDDRCNMKNFNICKYSDEKPAVPSREAEGEETELTPV 180
      |||||||
Db      142  CVVMYHQPSAPAGIGGPFYMFQWDDRCNMKNFNICKYSDEKPAVPSREAEGEETELTPV 201

QY      181  LPEETQEEADAKTKFKESREAAALNLAY 206
      |||||||
Db      202  LPEETQEEADAKTKFKESREAAALNLAY 227

RESULT 10
US-09-909-320-137
; Sequence 137, Application US/09909320
; Patent No. US20020132240A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann

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; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/909,320
; CURRENT FILING DATE: 2002-01-04
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-909-320-137

Query Match          98.7%; Score 1101; DB 9; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRRLNPFEEAKEACRRDGGQLVSI 52
   |||||
Db 22 ATGRLLSASDLDRGGQPCVCRGGTQPCYKVIYFHDTSRRLNPFEEAKEACRRDGGQLVSI 81
   |||||

QY 53 ESEDEQKLEKFIENLLPSDGFWIGLRREEKQSNSTACQDLYAWTDGSI SQFRNWIYVD 112
   |||||
Db 82 ESEDEQKLEKFIENLLPSDGFWIGLRREEKQSNSTACQDLYAWTDGSI SQFRNWIYVD 141
   |||||

QY 113 EPSCGSEVCVMYHOPSAFAGIGGPFQWNNDDRCNMKNFICKYSDEKPAVPSREAEGE 172
   |||||
Db 142 EPSCGSEVCVMYHOPSAFAGIGGPFQWNNDDRCNMKNFICKYSDEKPAVPSREAEGE 201
   |||||

QY 173 ETELTTPVLPEETQEEADAKTTFKESREAAALNLAY 206
   |||||
Db 202 ETELTTPVLPEETQEEADAKTTFKESREAAALNLAY 235
   |||||
```

RESULT 11
US-09-909-088B-137

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; Sequence 137, Application US/09909088B
; Patent No. US20020146709A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/909,088B
; CURRENT FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-909-088B-137
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Query Match	98.7%;	Score 1101;	DB 9;	Length 382;
Best Local Similarity	96.3%;	Pred. No. 8.8e-103;		
Matches 206;	Conservative	0;	Mismatches 0;	Indels 8;
				Gaps 1;
Qy	1	ATGRLLS-----GQVCRGGTQRPCYKVYFHDTSRRLLNFEEAKEACRRDGGQLVSI	52	
Db	22	ATGRLLSASDLDRGGQPVCRGGTQRPCYKVYFHDTSRRLLNFEEAKEACRRDGGQLVSI	81	
Qy	53	ESEDEQKLIKFIENLLPSDGDFFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWYVD	112	
Db	82	ESEDEQKLIKFIENLLPSDGDFFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWYVD	141	
Qy	113	EPSCGSEVCVMYHQSPAPAGIGGPPYMFQWDDRCNMKNFNICKYSDEKPAVPSREAEGE	172	
Db	142	EPSCGSEVCVMYHQSPAPAGIGGPPYMFQWDDRCNMKNFNICKYSDEKPAVPSREAEGE	201	
Qy	173	ETELTTPVLPEETQEEADAKKTFKESREAALNLAY	206	
Db	202	ETELTTPVLPEETQEEADAKKTFKESREAALNLAY	235	

RESULT 12					
US-09-905-291A-137					
; Sequence 137, Application US/09905291A					
; Patent No. US20020160374A1					
; GENERAL INFORMATION:					
; APPLICANT: Genentech, Inc.					
; APPLICANT: Ashkenazi, Avi					
; APPLICANT: Botstein, David					
; APPLICANT: Desnoyers, Luc					
; APPLICANT: Eaton, Dan L.					
; APPLICANT: Ferrara, Napoleone					
; APPLICANT: Filvaroff, Ellen					
; APPLICANT: Fong, Sherman					
; APPLICANT: Gao, Wei-Qiang					
; APPLICANT: Gerber, Hanspeter					
; APPLICANT: Gerritsen, Mary E.					
; APPLICANT: Goddard, A.					
; APPLICANT: Godowski, Paul J.					
; APPLICANT: Grimaldi, Christopher J.					
; APPLICANT: Gurney, Austin L.					
; APPLICANT: Hillan, Kenneth, J.					
; APPLICANT: Kliauin, Ivar J.					

; ORGANISM: Homo sapiens							
US-09-905-291A-137							
		Query Match	98.7%;	Score 1101;	DB 9;	Length 382;	
		Best Local Similarity	96.3%;	Pred. No. 8.8e-103;			
		Matches 206;	Conservative 0;	Mismatches 0;	Indels 8;	Gaps 1;	
Qy	1	ATGRLLS-----GQPVCRCGTQPCYKVIYFHDTSRLNFEEAKEACRRDGGQLVSI	52				
Dd	22	ATGRLLSASDLDRGGQPVCRCGTQPCYKVIYFHDTSRLNFEEAKEACRRDGGQLVSI	81				
Qy	53	ESEDEQKLIEFIENLLPSDGDFWIGLRRREEKQSNSTACQDLYAWTDGSISQFRNMYVD	112				
Dd	82	ESEDEQKLIEFIENLLPSDGDFWIGLRRREEKQSNSTACQDLYAWTDGSISQFRNMYVD	141				
Qy	113	EPSCGSEVCVMYHQSPAPAGIGGPFMFQWNDRCNMKNFNICKYSDEKPVPSPREAEGE	172				
Dd	142	EPSCGSEVCVMYHQSPAPAGIGGPFMFQWNDRCNMKNFNICKYSDEKPVPSPREAEGE	201				
Qy	173	ETELTTPVLPEETOEDAKKTFKESREAALNLAY	206				
Dd	202	ETELTTPVLPEETOEDAKKTFKESREAALNLAY	235				

RESULT 13

US-09-902-853-137

; Sequence 137, Application US/09902853

; Publication No. US20020192659A1

; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.

; APPLICANT: Ashkenazi, Avi

; APPLICANT: Botstein, David

; APPLICANT: Desnoyers, Luc

; APPLICANT: Eaton, Dan L.

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Fong, Sherman

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, A.

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, Christopher J. J.

; APPLICANT: Gurney, Austin L.

; APPLICANT: Hillan, Kenneth, J.

; APPLICANT: Kljavin, Ivar J.

; APPLICANT: Mather, Jennie P.

; APPLICANT: Pan, James

; APPLICANT: Paoni, Nicholas F.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Stewart, Timothy A.


```

; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,853
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: US/09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-902-853-137

Query Match          98.7%; Score 1101; DB 9; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY      1  ATGRLLS-----GQVCRGQTQPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSI 52
          |||||
Db      22  ATGRLLSASDLDLRGGQPVCRGQTQPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSI 81

QY      53  ESEDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSGISQFERNWYVD 112
          |||||
Db      82  ESEDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSGISQFERNWYVD 141

QY     113  EPSCGSEVCVMYHQPSAPAGIGGPFYMFQWDDRCNMKNFNICKYSDEKPAVPSREAEGE 172
          |||||
Db     142  EPSCGSEVCVMYHQPSAPAGIGGPFYMFQWDDRCNMKNFNICKYSDEKPAVPSREAEGE 201

QY     173  ETELTPVLPEETQEDAKKTFKESREAALNLAY 206
          |||||
Db     202  ETELTPVLPEETQEDAKKTFKESREAALNLAY 235

RESULT 14
US-09-907-824-137
; Sequence 137, Application US/09907824
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; Publication No. US20020197671A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvarcoff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,824
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo Sapien
```

US-09-907-824-137

Query Match 98.7%; Score 1101; DB 9; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels

QY	1	ATGRLLS-----GQPVCRGGTQRPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI	52
Db	22	ATGRLLSASDLDLRGGQPVCRGGTQRPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI	81
QY	53	ESEDEQKLIKIEFIENLLPSDGDFWIGLRREEKQSNSTACQDLYAWTDGSIQFNNWYVD	112
Db	82	ESEDEQKLIKIEFIENLLPSDGDFWIGLRREEKQSNSTACQDLYAWTDGSIQFNNWYVD	141
QY	113	EPSCGSEVCVVMYHQPSAPAGIGGYPYMFQWDDRCNMKNNFICKYSDEKPAVPSREAAGE	172
Db	142	EPSCGSEVCVVMYHQPSAPAGIGGYPYMFQWDDRCNMKNNFICKYSDEKPAVPSREAAGE	201
QY	173	ETELTTPVLPEETOEDAKTKFKESREAAALNLAY	206
Db	202	ETELTTPVLPEETOEDAKTKFKESREAAALNLAY	235

RESULT 15

US-09-907-841-137
; Sequence 137, Application US/09907841
; Publication No. US20020198366A1

GENERAL INFORMATION:

APPLICANT:	Genentech, Inc.
APPLICANT:	Ashkenazi, Avi
APPLICANT:	Botstein, David
APPLICANT:	Desnovers, Luc
APPLICANT:	Eaton, Dan L.
APPLICANT:	Ferrara, Napoleone
APPLICANT:	Filvaroff, Ellen
APPLICANT:	Fong, Sherman
APPLICANT:	Gao, Wei-Qiang
APPLICANT:	Gerber, Hanspeter
APPLICANT:	Gerritsen, Mary E.
APPLICANT:	Goddard, A.
APPLICANT:	Godowski, Paul J.
APPLICANT:	Grimaldi, Christopher J.
APPLICANT:	Gurney, Austin L.
APPLICANT:	Hillan, Kenneth, J.
APPLICANT:	Kljavin, Ivar J.
APPLICANT:	Mather, Jennie P.
APPLICANT:	Pan, James
APPLICANT:	paoni, Nicholas F.
APPLICANT:	Roy, Margaret Ann
APPLICANT:	Stewart, Timothy A.
APPLICANT:	Tumas, Daniel
APPLICANT:	Williams, P. Mickey
APPLICANT:	Wood, William, I.
TITLE OF INVENTION:	Secreted and Tra
TITLE OF INVENTION:	Acids Encoding
FILE REFERENCE:	10466-14
CURRENT APPLICATION NUMBER:	US/09/90
CURRENT FILING DATE:	2001-11-20
PRIOR APPLICATION NUMBER:	PCT/US00/0
PRIOR FILING DATE:	2000-02-22
PRIOR APPLICATION NUMBER:	US 60/143,
PRIOR FILING DATE:	1999-07-07
PRIOR APPLICATION NUMBER:	US 60/145,
PRIOR FILING DATE:	1999-07-26
PRIOR APPLICATION NUMBER:	US 60/146,
PRIOR FILING DATE:	1999-07-28
PRIOR APPLICATION NUMBER:	PCT/US99/2
PRIOR FILING DATE:	1999-09-08
PRIOR APPLICATION NUMBER:	PCT/US99/2
PRIOR FILING DATE:	1999-09-13
PRIOR APPLICATION NUMBER:	PCT/US99/2
PRIOR FILING DATE:	1999-09-15
PRIOR APPLICATION NUMBER:	PCT/US99/2

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; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-907-841-137

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Query Match 98.7%; Score 1101; DB 9; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels

QY	1	ATGRLLS-----GQPVCRGGTQRPCYKVIYFHTDSRRLLNFEEAKEACRRDGGQLVSI	52
Db	22	ATGRLLSASDLLRGGQPVCRGGTQRPCYKVIYFHTDSRRLLNFEEAKEACRRDGGQLVSI	81
QY	53	ESEDEQKLIKFIENLLPSDGFWIGLRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD	112
Db	82	ESEDEQKLIKFIENLLPSDGFWIGLRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD	141
QY	113	EPSCGSEVCVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAAGE	172
Db	142	EPSCGSEVCVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAAGE	201
QY	173	ETELTTPVLPEETQEEDAKKTPKESREAAALNLAY	206
Db	202	ETELTTPVLPEETQEEDAKKTPKESREAAALNLAY	235

RESULT 16

US-09-904-011-137
; Sequence 137, Application US/09904011
; Publication No. US20030003530A1

GENERAL INFORMATION:

APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnovers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Tra
TITLE OF INVENTION: Acids Encoding
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/90
CURRENT FILING DATE: 2001-07-11
PRIOR APPLICATION NUMBER: 09/665,350
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: PCT/US00/0
PRIOR FILING DATE: 2000-02-22

; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-904-011-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRLNFEEAKEACRRDGGQLVSI 52
Db 22 ATGRLLSASDLRLGGQPVCRGGTQPCYKVIYFHDTSRLNFEEAKEACRRDGGQLVSI 81

QY 53 ESEDEQKLEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNYYVD 112
Db 82 ESEDEQKLEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNYYVD 141

QY 113 EPSCGSEVCVMYHQPAPAGIGGPFYMFQWDDRCNMKNPFICKYSDEKPAVPSRAEGE 172
Db 142 EPSCGSEVCVMYHQPAPAGIGGPFYMFQWDDRCNMKNPFICKYSDEKPAVPSRAEGE 201

QY 173 ETELTTPVLPEETOEDAKKTFKESREAAALNLAY 206
Db 202 ETELTTPVLPEETOEDAKKTFKESREAAALNLAY 235

RESULT 17
US-09-906-742-137
; Sequence 137, Application US/09906742
; Publication No. US20030023054A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman

; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/906,742
; CURRENT FILING DATE: 2001-07-16
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-906-742-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRLNFEEAKEACRRDGGQLVSI 52
Db 22 ATGRLLSASDLRLGGQPVCRGGTQPCYKVIYFHDTSRLNFEEAKEACRRDGGQLVSI 81

QY	53	ESEDEQKLIETKIENLLPSDGDFWIGLRRREEKQSNSTACQDLAYAWTDGSIQSFRNWIYVD	112
Dd	82	ESEDEQKLIETKIENLLPSDGDFWIGLRRREEKQSNSTACQDLAYAWTDGSIQSFRNWIYVD	141
QY	113	EPSCGSEVCVVMYHQSPAPAGIGGPYMFQWDDRCNMKNFNICKYSDEKPAVPSPREAEGE	172
Dd	142	EPSCGSEVCVVMYHQSPAPAGIGGPYMFQWDDRCNMKNFNICKYSDEKPAVPSPREAEGE	201
QY	173	ETELTTPVLPEETOEDAKTKFKESREAAALNLAY	206
Dd	202	ETELTTPVLPEETOEDAKTKFKESREAAALNLAY	235

RESULT 18

US-09-906-838-137 ; Sequence 137, Application US/09906838
; Publication No. US20030027143A1

GENERAL INFORMATION:

```

; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Tra
; TITLE OF INVENTION: Acids Encoding
; FILE REFERENCE: 10466-14

```

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; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-906-838-137

Query Match          98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY      1  ATGRLLS-----GQVPCRGGTQPCVKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI 52
        |||||
Db      22  ATGRLLSASDLDLRGGQVPCRGGTQPCVKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI 81
        |||||

QY      53  ESEDEQKLIKFIENLLPSDGDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 112
        |||||
Db      82  ESEDEQKLIKFIENLLPSDGDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 141
        |||||

QY      113  EPSCGSEVCVVMYHQPSAPAGIGGYPYMFQWDDRCNMKNNFICKYSDEKPAVPSRAEAGE 172
        |||||
Db      142  EPSCGSEVCVVMYHQPSAPAGIGGYPYMFQWDDRCNMKNNFICKYSDEKPAVPSRAEAGE 201
        |||||

QY      173  ETELTTPVLPEETOEDAKKTFKESREAAALNLAY 206
        |||||
Db      202  ETELTTPVLPEETOEDAKKTFKESREAAALNLAY 235
        |||||

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RESULT 19

US-09-907-613-137
; Sequence 137, Application US/09907613
; Publication No. US20030027145A1

GENERAL INFORMATION:

/ GENERAL INFORMATION:
 / APPLICANT: Genentech, Inc.
 / APPLICANT: Ashkenazi, Avi
 / APPLICANT: Botstein, David
 / APPLICANT: Desnoyers, Luc
 / APPLICANT: Eaton, Dan L.
 / APPLICANT: Ferrara, Napoleone
 / APPLICANT: Filvaroff, Ellen
 / APPLICANT: Fong, Sherman
 / APPLICANT: Gao, Wei-Qiang
 / APPLICANT: Gerber, Hanspeter
 / APPLICANT: Gerritsen, Mary E.
 / APPLICANT: Goddard, A.
 / APPLICANT: Godowski, Paul J.
 / APPLICANT: Grimaldi, Christopher J.
 / APPLICANT: Gurney, Austin L.
 / APPLICANT: Hillan, Kenneth, J.
 / APPLICANT: Kljavin, Ivar J.
 / APPLICANT: Mather, Jennie P.
 / APPLICANT: Pan, James
 / APPLICANT: Paoni, Nicholas F.
 / APPLICANT: Roy, Margaret Ann
 / APPLICANT: Stewart, Timothy A.
 / APPLICANT: Tumas, Daniel
 / APPLICANT: Williams, P. Mickey
 / APPLICANT: Wood, William, I.
 / TITLE OF INVENTION: Secreted and Tra
 / TITLE OF INVENTION: Acids Encoding
 / FILE REFERENCE: 10466-14
 / CURRENT APPLICATION NUMBER: US/09/90

; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-907-613-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQPVCRGGTQPCYKVIYFHDTSRLNFEEAKEACRRDGGQLVSI 52
Db 22 ATGRLLSASDLDLRGGQPVCRGGTQPCYKVIYFHDTSRLNFEEAKEACRRDGGQLVSI 81

QY 53 ESEDEQKLEKFIENLLPSDGDWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWYVD 112
Db 82 ESEDEQKLEKFIENLLPSDGDWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWYVD 141

QY 113 EPSCGSEVCVMYHQPSAPAGIGGPFQWNDRCNMKNPFICKYSDEKPAVPSREAGE 172
Db 142 EPSCGSEVCVMYHQPSAPAGIGGPFQWNDRCNMKNPFICKYSDEKPAVPSREAGE 201

QY 173 ETELTTPVLPEETQEDAKKTFKESREAAALNLAY 206
Db 202 ETELTTPVLPEETQEDAKKTFKESREAAALNLAY 235

RESULT 20
US-09-907-942-137
; Sequence 137, Application US/09907942
; Publication No. US20030027146A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.

; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,942
; PRIOR FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-907-942-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQPVCRGGTQPCYKVIYFHDTSRLNFEEAKEACRRDGGQLVSI 52
Db 22 ATGRLLSASDLDLRGGQPVCRGGTQPCYKVIYFHDTSRLNFEEAKEACRRDGGQLVSI 81


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; CURRENT APPLICATION NUMBER: US/09/909,204
; CURRENT FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-909-204-137

Query Match      98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY      1  ATGRLLS-----GQPVCRGGTQRPCYKVIYFHDTSRRLNFEAAKEACRRDGGQLVSI 52
Db      22  ATGRLLSASDLDLRGGQPVCRGGTQRPCYKVIYFHDTSRRLNFEAAKEACRRDGGQLVSI 81

QY      53  ESEDEQKLIKFIEIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIISFRNWWYVD 112
Db      82  ESEDEQKLIKFIEIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIISFRNWWYVD 141

QY     113  EPSCGSEVCVMYHQPAPAGIGGYPYMFQWNNDRCNMKNFICKYSDEKPAVPSREAAGE 172
Db     142  EPSCGSEVCVMYHQPAPAGIGGYPYMFQWNNDRCNMKNFICKYSDEKPAVPSREAAGE 201

QY     173  ETELTPVLPEETQEEADAKKTFKESREAALNLAY 206
Db     202  ETELTPVLPEETQEEADAKKTFKESREAALNLAY 235

RESULT 23
US-09-904-820-137
; Sequence 137, Application US/09904820
; Publication No. US20030036094A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
```

```

; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,820
; CURRENT FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-904-820-137
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Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

Qy 1 ATGRLLS-----GQVCRGGGTQPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI 52
Db 22 ATGRLLSASDLDLRGQPVCRRGGTQPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI 81
Qy 53 ESEDEQKLIKFIENLLPSDGDFFWIGLRRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 112
Db 82 ESEDEQKLIKFIENLLPSDGDFFWIGLRRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 141
Qy 113 EPSCGSEVCVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAAGE 172
Db 142 EPSCGSEVCVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAAGE 201
Qy 173 ETELTPVLPEETQEEDAKKTFKESREAAALNLAY 206
Db 202 ETELTPVLPEETQEEDAKKTFKESREAAALNLAY 235

RESULT 24

US-09-904-786-137
; Sequence 137, Application US/09904786
; Publication No. US20030039969A1

GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; TITLE OF INVENTION: Acids Encoding the Same

; FILE REFERENCE: 10466-14

; CURRENT APPLICATION NUMBER: US/09/904,786

; CURRENT FILING DATE: 2001-07-12

; PRIOR APPLICATION NUMBER: 09/665,350

; PRIOR FILING DATE: 2000-09-18

; NUMBER OF SEQ ID NOS: 423

; SEQ ID NO 137

; LENGTH: 382

; TYPE: PRT

; ORGANISM: Homo Sapien

US-09-904-786-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

Qy 1 ATGRLLS-----GQVCRGGGTQPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI 52
Db 22 ATGRLLSASDLDLRGQPVCRRGGTQPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI 81
Qy 53 ESEDEQKLIKFIENLLPSDGDFFWIGLRRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 112
Db 82 ESEDEQKLIKFIENLLPSDGDFFWIGLRRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 141

Qy 113 EPSCGSEVCVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAAGE 172
Db 142 EPSCGSEVCVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAAGE 201
Qy 173 ETELTPVLPEETQEEDAKKTFKESREAAALNLAY 206
Db 202 ETELTPVLPEETQEEDAKKTFKESREAAALNLAY 235

RESULT 25

US-09-906-646-137
; Sequence 137, Application US/09906646
; Publication No. US20030039971A1

GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; TITLE OF INVENTION: Acids Encoding the Same

; FILE REFERENCE: 10466-14

; CURRENT APPLICATION NUMBER: US/09/906,646

; CURRENT FILING DATE: 2002-01-22

; PRIOR APPLICATION NUMBER: PCT/US00/04414

; PRIOR FILING DATE: 2000-02-22

; PRIOR APPLICATION NUMBER: US 60/143,048

; PRIOR FILING DATE: 1999-07-07

; PRIOR APPLICATION NUMBER: US 60/145,698

; PRIOR FILING DATE: 1999-07-26

; PRIOR APPLICATION NUMBER: US 60/146,222

; PRIOR FILING DATE: 1999-07-28

; PRIOR APPLICATION NUMBER: PCT/US99/20594

; PRIOR FILING DATE: 1999-09-08

; PRIOR APPLICATION NUMBER: PCT/US99/20944

; PRIOR FILING DATE: 1999-09-13

; PRIOR APPLICATION NUMBER: PCT/US99/21090

; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/21547

; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/23089

; PRIOR FILING DATE: 1999-10-05

; PRIOR APPLICATION NUMBER: PCT/US99/28214

; PRIOR FILING DATE: 1999-11-29

; PRIOR APPLICATION NUMBER: PCT/US99/28313

; PRIOR FILING DATE: 1999-11-30

; PRIOR APPLICATION NUMBER: PCT/US99/28564

; PRIOR FILING DATE: 1999-12-02

; PRIOR APPLICATION NUMBER: PCT/US99/28565

; PRIOR FILING DATE: 1999-12-02

; PRIOR APPLICATION NUMBER: PCT/US99/30095

; PRIOR FILING DATE: 1999-12-16

; PRIOR APPLICATION NUMBER: PCT/US99/30911


```
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-906-646-137

Query Match      98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY      1 ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRRLNFEAEKACRRDGGQLVSI 52
      |||||
Db      22 ATGRLLSASDLDLRGGQPVCRGGTQPCYKVIYFHDTSRRLNFEAEKACRRDGGQLVSI 81

QY      53 ESEDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 112
      |||||
Db      82 ESEDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 141

QY      113 EPSCGSEVCVMYHQPSAPAGIGGPFYMFQWNDRCNMKNNFICKYSDEKPAVPSREAAGE 172
      |||||
Db      142 EPSCGSEVCVMYHQPSAPAGIGGPFYMFQWNDRCNMKNNFICKYSDEKPAVPSREAAGE 201

QY      173 ETELTPVLPEETOEDAKKTFKESREAALNLAY 206
      |||||
Db      202 ETELTPVLPEETOEDAKKTFKESREAALNLAY 235
```

```
RESULT 26
US-09-906-700-137
; Sequence 137, Application US/09906700
; Publication No. US20030039972A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/906,700
; CURRENT FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
```

```
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-906-700-137

Query Match      98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY      1 ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRRLNFEAEKACRRDGGQLVSI 52
      |||||
Db      22 ATGRLLSASDLDLRGGQPVCRGGTQPCYKVIYFHDTSRRLNFEAEKACRRDGGQLVSI 81

QY      53 ESEDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 112
      |||||
Db      82 ESEDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 141

QY      113 EPSCGSEVCVMYHQPSAPAGIGGPFYMFQWNDRCNMKNNFICKYSDEKPAVPSREAAGE 172
      |||||
Db      142 EPSCGSEVCVMYHQPSAPAGIGGPFYMFQWNDRCNMKNNFICKYSDEKPAVPSREAAGE 201

QY      173 ETELTPVLPEETOEDAKKTFKESREAALNLAY 206
      |||||
Db      202 ETELTPVLPEETOEDAKKTFKESREAALNLAY 235
```

APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/903,786
CURRENT FILING DATE: 2001-07-11
PRIOR APPLICATION NUMBER: 09/665,350
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 137
LENGTH: 382
TYPE: PRT
ORGANISM: Homo Sapien
US-09-903-786-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
QY 1 ATGRLLS-----GQVCRGGTQPCYKVIFYHDTSRRLNFEEAKEACRRDGGQLVSI 52
Db 22 ATGRLLSASDLRLRGQPCVCRGGTQPCYKVIFYHDTSRRLNFEEAKEACRRDGGQLVSI 81
QY 53 ESEDEQKLIKFIENLLPSDGFWDGFWGLRRRREKQSNSTACQDLVYAWTDGSIQFRNWWYVD 112
Db 82 ESEDEQKLIKFIENLLPSDGFWDGFWGLRRRREKQSNSTACQDLVYAWTDGSIQFRNWWYVD 141

QY 113 EBSGSEVCVMYHQPSAPAGIGGPMFQWDDRCNMKNFICKYSDEKPAVPSREAEGE 172
Db 142 EBSGSEVCVMYHQPSAPAGIGGPMFQWDDRCNMKNFICKYSDEKPAVPSREAEGE 201
QY 173 ETELTPVLPEETQEDAKKTFKESREAAALNLAY 206
Db 202 ETELTPVLPEETQEDAKKTFKESREAAALNLAY 235

RESULT 28
US-09-902-903-137
Sequence 137, Application US/09902903
Publication No. US20030044839A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/902,903
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16

; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-902-903-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQPVCRGGTQPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSI 52
Db 22 ATGRLLSASDLDLRGGQPVCRGGTQPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSI 81
QY 53 ESEDEQKLIKFIENLLPSDGFWIGLRRRREKQSNSTACQDLYAWTDGSIQFRNWWYVD 112
Db 82 ESEDEQKLIKFIENLLPSDGFWIGLRRRREKQSNSTACQDLYAWTDGSIQFRNWWYVD 141
QY 113 EPSCGSEVCVMYHQPSAPAGIGGYPYMFQWNDRCNMKNFICKYSDEKPAVPSREAEGE 172
Db 142 EPSCGSEVCVMYHQPSAPAGIGGYPYMFQWNDRCNMKNFICKYSDEKPAVPSREAEGE 201
QY 173 ETELTPVLPPEETQEEADAKKTFKESREAAALNLAY 206
Db 202 ETELTPVLPPEETQEEADAKKTFKESREAAALNLAY 235

RESULT 29
US-09-903-749A-137
; Sequence 137, Application US/09903749A
; Publication No. US20030045693A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Geritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/903,749A
; CURRENT FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07

; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-903-749A-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQPVCRGGTQPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSI 52
Db 22 ATGRLLSASDLDLRGGQPVCRGGTQPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSI 81
QY 53 ESEDEQKLIKFIENLLPSDGFWIGLRRRREKQSNSTACQDLYAWTDGSIQFRNWWYVD 112
Db 82 ESEDEQKLIKFIENLLPSDGFWIGLRRRREKQSNSTACQDLYAWTDGSIQFRNWWYVD 141
QY 113 EPSCGSEVCVMYHQPSAPAGIGGYPYMFQWNDRCNMKNFICKYSDEKPAVPSREAEGE 172
Db 142 EPSCGSEVCVMYHQPSAPAGIGGYPYMFQWNDRCNMKNFICKYSDEKPAVPSREAEGE 201
QY 173 ETELTPVLPPEETQEEADAKKTFKESREAAALNLAY 206
Db 202 ETELTPVLPPEETQEEADAKKTFKESREAAALNLAY 235

RESULT 30
US-09-904-119-137
; Sequence 137, Application US/09904119
; Publication No. US20030049621A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter

APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/904,119
CURRENT FILING DATE: 2001-07-11
PRIOR APPLICATION NUMBER: 09/665,350
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 137
LENGTH: 382
TYPE: PRT
ORGANISM: Homo Sapien
US-09-904-119-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
QY 1 ATGRLLS-----GQPVCRGGTQPCYKVIYFHDTSRRLNFEAKEACRRDGGQLVSI 52
Db 22 ATGRLLSASDLRGGQPVCRGGTQPCYKVIYFHDTSRRLNFEAKEACRRDGGQLVSI 81
QY 53 ESEDEQKLIKFIENLLPSDGFWIGLRRRREKQSNSTACQDLYAWTDGSIQFRNWWYVD 112

Db 82 ESEDEQKLIKFIENLLPSDGFWIGLRRRREKQSNSTACQDLYAWTDGSIQFRNWWYVD 141
QY 113 EPCSGSEVCVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFNICKYSDEKPAVPSREAEGE 172
Db 142 EPCSGSEVCVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFNICKYSDEKPAVPSREAEGE 201
QY 173 ETELTPVLPEETQEDAKKTFKESREAAALNLAY 206
Db 202 ETELTPVLPEETQEDAKKTFKESREAAALNLAY 235

RESULT 31
US-09-904-956-137
Sequence 137, Application US/09904956
Publication No. US20030049622A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/904,956
CURRENT FILING DATE: 2001-07-12
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095

; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-904-956-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSI 52
Db 22 ATGRLLSASDLDLRGGQPCVCRGGTQPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSI 81

QY 53 ESEDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 112
Db 82 ESEDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 141

QY 113 EPSCGSEVCVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFNICKYSDEKPAVPSREAE 172
Db 142 EPSCGSEVCVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFNICKYSDEKPAVPSREAE 201

QY 173 ETELTTPVLPEETQEDAKKTFKESREAAALNLAY 206
Db 202 ETELTTPVLPEETQEDAKKTFKESREAAALNLAY 235

RESULT 32
US-09-902-736-137
; Sequence 137, Application US/09902736
; Publication No. US20030049676A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: ROY, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,736
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414

; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-902-736-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSI 52
Db 22 ATGRLLSASDLDLRGGQPCVCRGGTQPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSI 81

QY 53 ESEDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 112
Db 82 ESEDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 141

QY 113 EPSCGSEVCVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFNICKYSDEKPAVPSREAE 172
Db 142 EPSCGSEVCVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFNICKYSDEKPAVPSREAE 201

QY 173 ETELTTPVLPEETQEDAKKTFKESREAAALNLAY 206
Db 202 ETELTTPVLPEETQEDAKKTFKESREAAALNLAY 235

RESULT 33
US-09-907-794-137
; Sequence 137, Application US/09907794
; Publication No. US20030049677A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen

APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/907,794
CURRENT FILING DATE: 2001-07-17
PRIOR APPLICATION NUMBER: 09/665,350
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 137
LENGTH: 382
TYPE: PRT
ORGANISM: Homo Sapien
US-09-907-794-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
QY 1 ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRRLNFEFAKEACRRDGGQLVSI 52
DB 22 ATGRLLSASDLRLGGQVCRGGTQPCYKVIYFHDTSRRLNFEFAKEACRRDGGQLVSI 81

QY 53 ESEDEQKLIKFIENLPSDGDGFWIGLRRRREKQSNSTACQDLYAWTDGSIQFRNYYVD 112
Db 82 ESEDEQKLIKFIENLPSDGDGFWIGLRRRREKQSNSTACQDLYAWTDGSIQFRNYYVD 141
QY 113 EPSCGSEVCVMYHQPAPAGIGGYPYMFQWDDRCNMKNFICKYSDEKPAVPSREAAGE 172
Db 142 EPSCGSEVCVMYHQPAPAGIGGYPYMFQWDDRCNMKNFICKYSDEKPAVPSREAAGE 201
QY 173 ETELTPVLPEETOEDAKKTFKESREAALNLAY 206
Db 202 ETELTPVLPEETOEDAKKTFKESREAALNLAY 235

RESULT 34
US-09-903-943-137
; Sequence 137, Application US/09903943
; Publication No. US20030054349A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/903,943
; CURRENT FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30

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; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-903-943-137

Query Match          98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY      1  ATGRLLS-----GQPVCRGGTQRPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI 52
Db      22  ATGRLLSASDLDLRGGQPVCRGGTQRPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI 81

QY      53  ESEDEQKLIKFIENLLPSDGDGFWIGLRRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 112
Db      82  ESEDEQKLIKFIENLLPSDGDGFWIGLRRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 141

QY      113 EPSCGSEVCVMYHQPSAPAGIGGPPYMFQWNDRCNMKNNFICKYSDEKPAVPSREAEGE 172
Db      142 EPSCGSEVCVMYHQPSAPAGIGGPPYMFQWNDRCNMKNNFICKYSDEKPAVPSREAEGE 201

QY      173 ETELTTPVLPEETQEEADAKKTFKESREAALNLAY 206
Db      202 ETELTTPVLPEETQEEADAKKTFKESREAALNLAY 235

RESULT 35
US-09-904-462-137
; Sequence 137, Application US/09904462
; Publication No. US20030054351A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Par, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
```

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; CURRENT APPLICATION NUMBER: US/09/904,462
; CURRENT FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-904-462-137

Query Match          98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY      1  ATGRLLS-----GQPVCRGGTQRPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI 52
Db      22  ATGRLLSASDLDLRGGQPVCRGGTQRPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI 81

QY      53  ESEDEQKLIKFIENLLPSDGDGFWIGLRRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 112
Db      82  ESEDEQKLIKFIENLLPSDGDGFWIGLRRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 141

QY      113 EPSCGSEVCVMYHQPSAPAGIGGPPYMFQWNDRCNMKNNFICKYSDEKPAVPSREAEGE 172
Db      142 EPSCGSEVCVMYHQPSAPAGIGGPPYMFQWNDRCNMKNNFICKYSDEKPAVPSREAEGE 201

QY      173 ETELTTPVLPEETQEEADAKKTFKESREAALNLAY 206
Db      202 ETELTTPVLPEETQEEADAKKTFKESREAALNLAY 235

RESULT 36
US-09-907-925-137
; Sequence 137, Application US/09907925
; Publication No. US20030054352A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
```

APPLICANT: Botstein, David
APPLICANT: Desnovers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/907,925
CURRENT FILING DATE: 2001-07-17
PRIOR APPLICATION NUMBER: 09/665,350
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 137
LENGTH: 382
TYPE: PRT
ORGANISM: Homo Sapien
US-09-907-925-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;

Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
Qy 1 ATGRLLS-----CQPVCRGGTORPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSI 52
Db 22 ATGRLLSASDLDRGQPVCRGGTORPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSI 81
Qy 53 ESEDEQKLEKFIENLLPSDGFWDGLRRRREKQSNSTACODLYAWTDGSIQFRNWWYVD 112
Db 82 ESEDEQKLEKFIENLLPSDGFWDGLRRRREKQSNSTACODLYAWTDGSIQFRNWWYVD 141
Qy 113 EPSCGSEVCVVMYHQPSAPAGIGGYPYMFQWNNDRCNMKNFNICKYSDEKPAVPSREAEGE 172
Db 142 EPSCGSEVCVVMYHQPSAPAGIGGYPYMFQWNNDRCNMKNFNICKYSDEKPAVPSREAEGE 201
Qy 173 ETELTPVLPEETOEDAKKTFKESREAAALNLAY 206
Db 202 ETELTPVLPEETOEDAKKTFKESREAAALNLAY 235

RESULT 37

US-09-902-692-137
Sequence 137, Application US/09902692
Publication No. US2003005400A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnovers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/902,692
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214


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; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-902-692-137

Query Match          98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY      1  ATGRLLS-----GQPVCRGGTQPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSI 52
      |||||||
Db      22  ATGRLLSASDLDLRGGQPVCRGGTQPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSI 81
      |||||||
QY      53  ESEDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 112
      |||||||
Db      82  ESEDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 141
      |||||||
QY      113  EPSCGSEVCVMYHQPSAPAGIGGPPYMFQWDDRCNMKNNFICKYSDEKPAVPSREAEGE 172
      |||||||
Db      142  EPSCGSEVCVMYHQPSAPAGIGGPPYMFQWDDRCNMKNNFICKYSDEKPAVPSREAEGE 201
      |||||||
QY      173  ETELTPVLPEETOEDAKKTFKESREAALNLAY 206
      |||||||
Db      202  ETELTPVLPEETOEDAKKTFKESREAALNLAY 235
      |||||||

RESULT 38
US-09-903-520-137
; Sequence 137, Application US/09903520
; Publication No. US20030054401A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.

```

```

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/903,520
; CURRENT FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-903-520-137

Query Match          98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY      1  ATGRLLS-----GQPVCRGGTQPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSI 52
      |||||||
Db      22  ATGRLLSASDLDLRGGQPVCRGGTQPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSI 81
      |||||||
QY      53  ESEDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 112
      |||||||
Db      82  ESEDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 141
      |||||||
QY      113  EPSCGSEVCVMYHQPSAPAGIGGPPYMFQWDDRCNMKNNFICKYSDEKPAVPSREAEGE 172
      |||||||
Db      142  EPSCGSEVCVMYHQPSAPAGIGGPPYMFQWDDRCNMKNNFICKYSDEKPAVPSREAEGE 201
      |||||||
QY      173  ETELTPVLPEETOEDAKKTFKESREAALNLAY 206
      |||||||
Db      202  ETELTPVLPEETOEDAKKTFKESREAALNLAY 235
      |||||||

RESULT 39
US-09-905-056-137
; Sequence 137, Application US/09905056
; Publication No. US20030054441A1

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Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
Qy 1 ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSI 52
Db 22 ATGRLLSASDLRLRGQPVCRGGTQPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSI 81
Qy 53 ESEDEQKLIKFIENLLPSDGDWIGLRRRREKQSNSTACODLYAWTDGSI SQFRNWWVD 112
Db 82 ESEDEQKLIKFIENLLPSDGDWIGLRRRREKQSNSTACODLYAWTDGSI SQFRNWWVD 141
Qy 113 EPSCGSEVCVMYHQPSAPAGIGGPPYMFQWNNDRCNMKNFICKYSDEKPAVPSREAEGE 172
Db 142 EPSCGSEVCVMYHQPSAPAGIGGPPYMFQWNNDRCNMKNFICKYSDEKPAVPSREAEGE 201
Qy 173 ETELTTPVLPEETOEDAKKTFKESREAAALNLAY 206
Db 202 ETELTTPVLPEETOEDAKKTFKESREAAALNLAY 235

RESULT 40

US-09-909-064-137
; Sequence 137, Application US/09909064
; Publication No. US20030059772A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/909,064
; CURRENT FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089

GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/905,056
CURRENT FILING DATE: 2002-01-22
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 137
LENGTH: 382
TYPE: PRT
ORGANISM: Homo sapiens
US-09-905-056-137

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; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-909-064-137

Query Match      98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY      1  ATGRLLS-----GQPVCRGGTQRPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI 52
Db      22  ATGRLLSASDLDLRGGQPVCRGGTQRPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI 81

QY      53  ESEDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 112
Db      82  ESEDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 141

QY      113 EPSCGSEVCVMYHQPAPAGIGGYPYMFQWNDRCNMKNFICKYSDEKPAVPSREAAGE 172
Db      142 EPSCGSEVCVMYHQPAPAGIGGYPYMFQWNDRCNMKNFICKYSDEKPAVPSREAAGE 201

QY      173 ETELTTPVLPEETOEEADAKKTFKESREAALNLAY 206
Db      202 ETELTTPVLPEETOEEADAKKTFKESREAALNLAY 235
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RESULT 41
US-09-904-553-137
; Sequence 137, Application US/09904553
; Publication No. US20030059828A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
```

```
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,553
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-904-553-137

Query Match      98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY      1  ATGRLLS-----GQPVCRGGTQRPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI 52
Db      22  ATGRLLSASDLDLRGGQPVCRGGTQRPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI 81

QY      53  ESEDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 112
Db      82  ESEDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 141

QY      113 EPSCGSEVCVMYHQPAPAGIGGYPYMFQWNDRCNMKNFICKYSDEKPAVPSREAAGE 172
Db      142 EPSCGSEVCVMYHQPAPAGIGGYPYMFQWNDRCNMKNFICKYSDEKPAVPSREAAGE 201

QY      173 ETELTTPVLPEETOEEADAKKTFKESREAALNLAY 206
Db      202 ETELTTPVLPEETOEEADAKKTFKESREAALNLAY 235
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RESULT 42
US-09-905-381-137
; Sequence 137, Application US/09905381
; Publication No. US20030059829A1
; GENERAL INFORMATION:
```

APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/905,381
CURRENT FILING DATE: 2001-07-13
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 137
LENGTH: 382
TYPE: PRT
ORGANISM: Homo Sapien
US-09-905-381-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
QY 1 ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI 52
|||||
Db 22 ATGRLLSASDLRGQGPVCRGGTQPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI 81
QY 53 ESEDEQKLIKFIENLLPSDGFWIGLRRRREKQSNSTACQDLYAWTDGSIQFRNYYVD 112
|||||
Db 82 ESEDEQKLIKFIENLLPSDGFWIGLRRRREKQSNSTACQDLYAWTDGSIQFRNYYVD 141
QY 113 EPSCGSEVCVMYHOPAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGE 172
|||||
Db 142 EPSCGSEVCVMYHOPAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGE 201
QY 173 ETELTPVLPEETQEEDAKKTFKESREAALNLAY 206
|||||
Db 202 ETELTPVLPEETQEEDAKKTFKESREAALNLAY 235
RESULT 43
US-09-905-088-137
; Sequence 137, Application US/09905088
; Publication No. US20030073077A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,088
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547

; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-905-088-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQVCRGGTQRPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSI 52
Db 22 ATGRLLSASDLDLRGGQPVCRGGTQRPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSI 81
QY 53 ESEDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 112
Db 82 ESEDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 141
QY 113 EPSCGSEVCVMYHQPAPAGIGGYPYMFQWDDRCNMKNFICKYSDEKPAVPSREAAGE 172
Db 142 EPSCGSEVCVMYHQPAPAGIGGYPYMFQWDDRCNMKNFICKYSDEKPAVPSREAAGE 201
QY 173 ETELTPVLPETQEEEDAKKTFKESREAAALNLAY 206
Db 202 ETELTPVLPETQEEEDAKKTFKESREAAALNLAY 235

RESULT 44
US-09-907-575-137
; Sequence 137, Application US/09907575
; Publication No. US20030073079A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann

; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,575
; CURRENT FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-907-575-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQVCRGGTQRPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSI 52
Db 22 ATGRLLSASDLDLRGGQPVCRGGTQRPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSI 81
QY 53 ESEDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 112
Db 82 ESEDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 141
QY 113 EPSCGSEVCVMYHQPAPAGIGGYPYMFQWDDRCNMKNFICKYSDEKPAVPSREAAGE 172
Db 142 EPSCGSEVCVMYHQPAPAGIGGYPYMFQWDDRCNMKNFICKYSDEKPAVPSREAAGE 201
QY 173 ETELTPVLPETQEEEDAKKTFKESREAAALNLAY 206
Db 202 ETELTPVLPETQEEEDAKKTFKESREAAALNLAY 235

RESULT 45
US-09-905-075-137

; Sequence 137, Application US/09905075
; Publication No. US20030077583A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,075
; CURRENT FILING DATE: 2001-07-13
; Prior application data removed. Check file wrapper or PALM.
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-905-075-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQPCVCGGTQPCYKVIYFHDTSRRLNFEAKEACRRDGGQLVSI 52
Db 22 ATGRLLSASDLRLRGQPCVCGGTQPCYKVIYFHDTSRRLNFEAKEACRRDGGQLVSI 81

QY 53 ESEDEQKLEKFIENLLPSDGFWIGLRRREKQSNSTACQDLVAWTDGSIQFRNWWYD 112
Db 82 ESEDEQKLEKFIENLLPSDGFWIGLRRREKQSNSTACQDLVAWTDGSIQFRNWWYD 141

QY 113 EPSCGSEVCVMYHOPAPAGIGGYPYMFQWDDRCNMKNFICKYSDEKPAVPSREAGE 172
Db 142 EPSCGSEVCVMYHOPAPAGIGGYPYMFQWDDRCNMKNFICKYSDEKPAVPSREAGE 201

QY 173 ETELTPVLPEETOSEDAKKTFKESREAAINLAY 206
Db 202 ETELTPVLPEETOSEDAKKTFKESREAAINLAY 235

RESULT 46
US-09-902-759-137
; Sequence 137, Application US/09902759
; Publication No. US20030077654A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone

; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,759
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-902-759-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQPCVCGGTQPCYKVIYFHDTSRRLNFEAKEACRRDGGQLVSI 52
Db 22 ATGRLLSASDLRLRGQPCVCGGTQPCYKVIYFHDTSRRLNFEAKEACRRDGGQLVSI 81

; PRIOR FILING DATE: 2000-09-18
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414
 ; PRIOR FILING DATE: 2000-02-22
 ; PRIOR APPLICATION NUMBER: US 60/143,048
 ; PRIOR FILING DATE: 1999-07-07
 ; PRIOR APPLICATION NUMBER: US 60/145,698
 ; PRIOR FILING DATE: 1999-07-26
 ; PRIOR APPLICATION NUMBER: US 60/146,222
 ; PRIOR FILING DATE: 1999-07-28
 ; PRIOR APPLICATION NUMBER: PCT/US99/20594
 ; PRIOR FILING DATE: 1999-09-08
 ; PRIOR APPLICATION NUMBER: PCT/US99/20944
 ; PRIOR FILING DATE: 1999-09-13
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090
 ; PRIOR FILING DATE: 1999-09-15
 ; PRIOR APPLICATION NUMBER: PCT/US99/21547
 ; PRIOR FILING DATE: 1999-09-15
 ; PRIOR APPLICATION NUMBER: PCT/US99/23089
 ; PRIOR FILING DATE: 1999-10-05
 ; PRIOR APPLICATION NUMBER: PCT/US99/28214
 ; PRIOR FILING DATE: 1999-11-29
 ; PRIOR APPLICATION NUMBER: PCT/US99/28313
 ; PRIOR FILING DATE: 1999-11-30
 ; PRIOR APPLICATION NUMBER: PCT/US99/28564
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/28565
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/30095
 ; PRIOR FILING DATE: 1999-12-16
 ; PRIOR APPLICATION NUMBER: PCT/US99/30911
 ; PRIOR FILING DATE: 1999-12-20
 ; PRIOR APPLICATION NUMBER: PCT/US99/30999
 ; PRIOR FILING DATE: 1999-12-20
 ; PRIOR APPLICATION NUMBER: PCT/US00/00219
 ; NUMBER OF SEQ ID NOS: 423
 ; SEQ ID NO 137
 ; LENGTH: 382
 ; TYPE: PRT
 ; ORGANISM: Homo Sapien
 ; US-09-902-713-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
 Best Local Similarity 96.3%; Pred. No. 8.8e-103;
 Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
 QY 1 ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI 52
 Db 22 ATGRLLSASDLRLGGQPVCRGGTQPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI 81
 QY 53 ESEDEQKLEKFIENLLPSDGDGFWIGLRRRREKQSNSTACQDLYAWTDGSIQFRNWWVD 112
 Db 82 ESEDEQKLEKFIENLLPSDGDGFWIGLRRRREKQSNSTACQDLYAWTDGSIQFRNWWVD 141
 QY 113 EPSCGSEVCVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGE 172
 Db 142 EPSCGSEVCVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGE 201
 QY 173 ETELTPVLPETQEDDAKKTFFKESREAAALNLAY 206
 Db 202 ETELTPVLPETQEDDAKKTFFKESREAAALNLAY 235

RESULT 49
 US-09-907-979-137
 ; Sequence 137, Application US/09907979
 ; Publication No. US20030082542A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Genentech, Inc.
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan L.

; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, A.
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, Christopher J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Hillan, Kenneth, J.
 ; APPLICANT: Kljavin, Ivar J.
 ; APPLICANT: Mather, Jennie P.
 ; APPLICANT: Pan, James
 ; APPLICANT: Paoni, Nicholas F.
 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William, I.
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ; FILE REFERENCE: 10466-14
 ; CURRENT APPLICATION NUMBER: US/09/907,979
 ; PRIOR FILING DATE: 2001-07-17
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414
 ; PRIOR FILING DATE: 2000-02-22
 ; PRIOR APPLICATION NUMBER: US 60/143,048
 ; PRIOR FILING DATE: 1999-07-07
 ; PRIOR APPLICATION NUMBER: US 60/145,698
 ; PRIOR FILING DATE: 1999-07-26
 ; PRIOR APPLICATION NUMBER: US 60/146,222
 ; PRIOR FILING DATE: 1999-07-28
 ; PRIOR APPLICATION NUMBER: PCT/US99/20594
 ; PRIOR FILING DATE: 1999-09-08
 ; PRIOR APPLICATION NUMBER: PCT/US99/20944
 ; PRIOR FILING DATE: 1999-09-13
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090
 ; PRIOR FILING DATE: 1999-09-15
 ; PRIOR APPLICATION NUMBER: PCT/US99/21547
 ; PRIOR FILING DATE: 1999-09-15
 ; PRIOR APPLICATION NUMBER: PCT/US99/23089
 ; PRIOR FILING DATE: 1999-10-05
 ; PRIOR APPLICATION NUMBER: PCT/US99/28214
 ; PRIOR FILING DATE: 1999-11-29
 ; PRIOR APPLICATION NUMBER: PCT/US99/28313
 ; PRIOR FILING DATE: 1999-11-30
 ; PRIOR APPLICATION NUMBER: PCT/US99/28564
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/28565
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/30095
 ; PRIOR FILING DATE: 1999-12-16
 ; PRIOR APPLICATION NUMBER: PCT/US99/30911
 ; PRIOR FILING DATE: 1999-12-20
 ; PRIOR APPLICATION NUMBER: PCT/US99/30999
 ; PRIOR FILING DATE: 1999-12-20
 ; PRIOR APPLICATION NUMBER: PCT/US00/00219
 ; NUMBER OF SEQ ID NOS: 423
 ; SEQ ID NO 137
 ; LENGTH: 382
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-09-907-979-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
 Best Local Similarity 96.3%; Pred. No. 8.8e-103;
 Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
 QY 1 ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI 52
 Db 22 ATGRLLSASDLRLGGQPVCRGGTQPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI 81

Qy 53 ESEDEQKLEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVD 112
Db 82 ESEDEQKLEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVD 141
Qy 113 EPSCGSEVCVMYHQPSAPAGIGGPPYMFQWNNDRCNMKNFICKYSDEKPAVPSREAEGE 172
Db 142 EPSCGSEVCVMYHQPSAPAGIGGPPYMFQWNNDRCNMKNFICKYSDEKPAVPSREAEGE 201
Qy 173 ETELTTPVLPEETQEEDAKKTFKESREAAALNLAY 206
Db 202 ETELTTPVLPEETQEEDAKKTFKESREAAALNLAY 235

RESULT 50
US-09-902-615-137
; Sequence 137, Application US/09902615
; Publication No. US20030092002a1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Pacni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,615
; CURRENT FILING DATE: 2001-12-14
; Prior application data removed. Check file wrapper or PALM.
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-902-615-137

Query Match 98.7%; Score 1101; DB 10; Length 382;
Best Local Similarity 96.3%; Pred. No. 8.8e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

Qy 1 ATGRLLS-----GQPVCRGSGTQRPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI 52
Db 22 ATGRLLSASDLDLRGGQPVCRGSGTQRPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI 81
Qy 53 ESEDEQKLEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVD 112
Db 82 ESEDEQKLEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVD 141
Qy 113 EPSCGSEVCVMYHQPSAPAGIGGPPYMFQWNNDRCNMKNFICKYSDEKPAVPSREAEGE 172
Db 142 EPSCGSEVCVMYHQPSAPAGIGGPPYMFQWNNDRCNMKNFICKYSDEKPAVPSREAEGE 201

Qy 173 ETELTTPVLPEETQEEDAKKTFKESREAAALNLAY 206
Db 202 ETELTTPVLPEETQEEDAKKTFKESREAAALNLAY 235
Search completed: September 9, 2004, 22:50:39
Job time : 130 secs

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OM protein - protein search, using sw model

Run on: September 9, 2004, 22:30:53 ; Search time 116 Seconds
(without alignments)
560.317 Million cell updates/sec

Title: US-09-887-855-2_COPY_22_227
Perfect score: 1115
Sequence: 1 ATGRLLSGQPVCRGGTQRPC.....BEDAKKTFKESREALNLAY 206

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1017041 seqs, 315518202 residues

Total number of hits satisfying chosen parameters: 1017041

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 50 summaries

Database : SPTREMBL 25:*
1: sp_archea:*
2: sp_bacteria:*
3: sp_fungi:*
4: sp_human:*
5: sp_invertebrate:*
6: sp_mammal:*
7: sp_mhc:*
8: sp_organelle:*
9: sp_phage:*
10: sp_plant:*
11: sp_rodent:*
12: sp_virus:*
13: sp_invertebrate:*
14: sp_unclassified:*
15: sp_rvirus:*
16: sp_bacteriap:*
17: sp_archeap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	1115	100.0	374	4	Q8TAY8	Q8tay8 homo sapien
2	1115	100.0	374	4	Q96NF3	Q96nf3 homo sapien
3	1111	99.6	374	4	Q96NC5	Q96nc5 homo sapien
4	945.5	84.8	374	11	Q9Z209	Q9z209 cricetus
5	803.5	72.1	211	11	Q8C351	Q8c351 mus musculus
6	580	52.0	246	11	Q8BVI7	Q8bvi7 mus musculus
7	580	52.0	292	11	Q8BVU2	Q8bvu2 mus musculus
8	513	46.0	236	4	Q7Z798	Q7z798 homo sapien
9	504.5	45.2	232	4	Q7Z799	Q7z799 homo sapien
10	500	44.8	236	4	Q7Z7A0	Q7z7a0 homo sapien
11	185	16.6	1290	13	Q9W6E1	Q9w6e1 gallus gall
12	178.5	16.0	1456	11	Q61830	Q61830 mus musculus
13	177.5	15.9	1348	5	Q25199	Q25199 hydra atten
14	176.5	15.8	1479	4	Q9Y5P9	Q9y5p9 homo sapien
15	176.5	15.8	1479	4	Q9UBG0	Q9ubg0 homo sapien
16	170.5	15.3	1479	11	Q64449	Q64449 mus musculus

17	169	15.2	217	11	Q8C4F8	Q8c4f8 mus musculu
18	165.5	14.8	742	11	Q8K4Q8	Q8k4q8 mus musculu
19	165.5	14.8	742	11	Q8C979	Q8c979 mus musculu
20	161.5	14.5	134	5	Q9XYX3	Q9xyx3 hydra magni
21	159.5	14.3	742	11	Q8VIF6	Q8vif6 mus musculu
22	158	14.2	142	11	Q8CJ86	Q8cj86 mus musculu
23	158	14.2	142	11	Q8BHK7	Q8bhk7 mus musculu
24	158	14.2	295	11	Q91ZW4	Q91zw4 mus musculu
25	158	14.2	311	11	Q9D8V4	Q9d8v4 mus musculu
26	158	14.2	325	11	Q91ZX0	Q91zx0 mus musculu
27	157	14.1	158	13	Q90WI7	Q90wi7 bungarus fa
28	156	14.0	323	11	Q8CJ91	Q8cj91 mus musculu
29	156	14.0	339	6	Q95244	Q95244 sus scrofa
30	155	13.9	293	11	Q8BGZ0	Q8bgz0 mus musculu
31	155	13.9	323	11	Q8CJ94	Q8cj94 mus musculu
32	155	13.9	323	11	Q8CJ93	Q8cj93 mus musculu
33	155	13.9	323	11	Q8CJ88	Q8cj88 mus musculu
34	155	13.9	379	11	Q7TMA7	Q7tma7 mus musculu
35	155	13.9	473	11	Q7TSP9	Q7tsp9 mus musculu
36	155	13.9	477	11	Q7TSQ7	Q7tsq7 mus musculu
37	155	13.9	504	11	Q7TSQ0	Q7tsq0 mus musculu
38	155	13.9	534	11	Q7TSQ1	Q7tsq1 mus musculu
39	155	13.9	1152	13	Q90WM2	Q90wm2 xenopus lae
40	154	13.8	322	11	Q8CJ89	Q8cj89 mus musculu
41	154	13.8	323	11	Q8CJ92	Q8cj92 mus musculu
42	153	13.7	446	4	Q7Z5K9	Q7z5k9 homo sapien
43	152.5	13.7	485	6	Q95LG3	Q95lg3 odocoileus
44	152	13.6	158	13	Q90WI6	Q90wi6 bungarus mu
45	151.5	13.6	652	4	Q8IXK1	Q8ixk1 homo sapien
46	150.5	13.5	399	6	Q8HY12	Q8hy12 hylobates l
47	150	13.5	197	6	Q28008	Q28008 bos taurus
48	149.5	13.4	158	11	Q8JZX6	Q8jzx6 mus musculu
49	149.5	13.4	459	5	Q22136	Q22136 caenorhabdi
50	149	13.4	158	13	Q90WI8	Q90wi8 bungarus fa

ALIGNMENTS

RESULT 1
Q8TAY8
ID Q8TAY8 PRELIMINARY; PRT; 374 AA.
AC Q8TAY8;
DT 01-JUN-2002 (Tremblrel. 21, Created)
DT 01-JUN-2002 (Tremblrel. 21, Last sequence update)
DT 01-OCT-2003 (Tremblrel. 25, Last annotation update)
DE Similar to unnamed protein product.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Brain;
RA Strausberg R.;
RL Submitted (MAR-2002) to the EMBL/GenBank/DDBJ databases.
DR EMBL; BC025407; AAH25407.1; -.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR001304; lectin_C.
DR Pfam; PF00059; lectin_c; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
SQ SEQUENCE 374 AA; 42312 MW; FC214E6BC9E578D9 CRC64;

Query Match 100.0%; Score 1115; DB 4; Length 374;
Best Local Similarity 100.0%; Pred. No. 7.1e-99;
Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGRLLSGQPVCRGGTQRPCYKVIYFHTSRRLNFEEAKEACRRDGGQLVSI ESEDEQKL 60
|||
Db 22 ATGRLLSGQPVCRGGTQRPCYKVIYFHTSRRLNFEEAKEACRRDGGQLVSI ESEDEQKL 81
61 IEKFIENLLPSDGDGEWIGLRRREEKQSNSTACDLYAWTDGSGISQFRNWWYVDEPSCGSEV 120

Db 82 IEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEV 141
QY 121 CVVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGETELTTPV 180
Db 142 CVVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGETELTTPV 201
QY 181 LPEETQEEDAKTKFKESREAAALNLAY 206
Db 202 LPEETQEEDAKTKFKESREAAALNLAY 227

RESULT 2

Q96NF3 PRELIMINARY; PRT; 374 AA.
AC Q96NF3;
DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Hypothetical protein FLJ30977.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Ishibashi T., Kanehori K., Yosida M., Watanabe S., Ishida S., Ono Y.,
RA Hotuta T., Hiraoka S., Murakawa K., Takiguchi S., Kusano J.,
RA Watanabe M., Fujimori K., Tanai H., Ishida M., Yamashita H., Chiba Y.,
RA Sugiyama T., Irie R., Otsuki T., Sato H., Wakamatsu A., Ishii S.,
RA Yamamoto J., Isono Y., Kawai-Hio Y., Saito K., Nishikawa T.,
RA Kimura K., Matsuo K., Nakamura Y., Sekine M., Kikuchi H., Kanda K.,
RA Wagatsuma M., Takahashi-Fujii A., Oshima A., Sugiyama A., Kawakami B.,
RA Suzuki Y., Sugano S., Nagahari K., Masuho Y., Nagai K., Isogai T.;
RT "NEDO human cDNA sequencing project."
RL Submitted (OCT-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AK055539; BAB70946.1; -.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR001304; LECTIN_C.
DR Pfam; PF00059; lectin_c; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
KW Hypothetical protein.
SQ SEQUENCE 374 AA; 42280 MW; 8AE64E6BC9B56DCD CRC64;

Query Match 100.0%; Score 1115; DB 4; Length 374;
Best Local Similarity 100.0%; Pred. No. 7.1e-99;
Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGRLLSGQPVCRCGTQPCYKVIYFHTSRRLNFEAEKACRRDGGQLVSI ESEDEQKL 60
Db 22 ATGRLLSGQPVCRCGTQPCYKVIYFHTSRRLNFEAEKACRRDGGQLVSI ESEDEQKL 81
QY 61 IEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEV 120
Db 82 IEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEV 141
QY 121 CVVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGETELTTPV 180
Db 142 CVVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGETELTTPV 201
QY 181 LPEETQEEDAKTKFKESREAAALNLAY 206
Db 202 LPEETQEEDAKTKFKESREAAALNLAY 227

RESULT 3

Q96NC5 PRELIMINARY; PRT; 374 AA.
AC Q96NC5;
DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)

DE Hypothetical protein FLJ31092.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Tashiro H., Yamazaki M., Watanabe K., Kumagai A., Itakura S.,
RA Fukuzumi Y., Fujimori Y., Komiyama M., Sugiyama T., Irie R.,
RA Otsuki T., Sato H., Wakamatsu A., Ishii S., Yamamoto J., Isono Y.,
RA Kawai-Hio Y., Saito K., Nishikawa T., Kimura K., Yamashita H.,
RA Matsuo K., Nakamura Y., Sekine M., Kikuchi H., Kanda K., Wagatsuma M.,
RA Murakawa K., Kanehori K., Takahashi-Fujii A., Oshima A., Sugiyama A.,
RA Kawakami B., Suzuki Y., Sugano S., Nagahari K., Masuho Y., Nagai K.,
RA Isogai T.;
RT "NEDO human cDNA sequencing project."
RL Submitted (OCT-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AK055654; BAB70978.1; -.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR001304; LECTIN_C.
DR Pfam; PF00059; lectin_c; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
KW Hypothetical protein.
SQ SEQUENCE 374 AA; 42310 MW; CBF74E676E23BA16 CRC64;

Query Match 99.6%; Score 1111; DB 4; Length 374;
Best Local Similarity 99.5%; Pred. No. 1.7e-98;
Matches 205; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 ATGRLLSGQPVCRCGTQPCYKVIYFHTSRRLNFEAEKACRRDGGQLVSI ESEDEQKL 60
Db 22 ATGRLLSGQPVCRCGTQPCYKVIYFHTSRRLNFEAEKACRRDGGQLVSI ESEDEQKL 81
QY 61 IEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEV 120
Db 82 IEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEV 141
QY 121 CVVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGETELTTPV 180
Db 142 CVVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGETELTTPV 201
QY 181 LPEETQEEDAKTKFKESREAAALNLAY 206
Db 202 LPEETQEEDAKTKFKESREAAALNLAY 227

RESULT 4

Q9Z209 PRELIMINARY; PRT; 374 AA.
AC Q9Z209;
DT 01-MAY-1999 (TrEMBLrel. 10, Created)
DT 01-MAY-1999 (TrEMBLrel. 10, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Layilin.
OS Cricetulus griseus (Chinese hamster).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Cricetinae;
OC Cricetulus.
OX NCBI_TaxID=10029;
RN [1]
RP SEQUENCE FROM N.A.
RA Borowsky M.L., Hynes R.O.;
RT "Layilin, a novel talin-binding transmembrane protein homologous with
RT C-type lectins, is localized in membrane ruffles."
RL J. Cell Biol. 143:0-0(1998).
DR EMBL; AF093673; AAC68695.1; -.
DR HSSP; P22897; 1EGG.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR001304; LECTIN_C.
DR Pfam; PF00059; lectin_c; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1

Db 807 YKDYQYFSKEKETMDNARRPCKKNFGDLATIKSEKKFLWKYI-NKNGGQSPYFIGML 865
QY 81 RREBKQSNSTACQDLAYATDGSISQFRNWWYVDEPSCGS--EVCVVMYHQPSAPAGIGGPY 138
Db 866 ISMDKK-----FIWMDGSKVDFVAWATGEPNPFANDDENCVTMY-----TNSGF---- 908
QY 139 MFQWNDRCNMKNFICK---YSDEKPAVPSREAEGBETELETTPVLPEETOE----- 187
Db 909 ---WNDINCYPNNFICQRHNSINATAMP-----TTPTPGGCKEGWHLYKNK 954
QY 188 -----EDAKKTFKESREAAALNL 204
Db 955 CFKIFGFANEKKSWQDARQACKGL 979
RESULT 13
Q25199 ID Q25199 PRELIMINARY; PRT; 1348 AA.
AC Q25199;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-MAY-1999 (TrEMBLrel. 10, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Tyrosine kinase receptor.
OS Hydra attenuata (Hydra) (Hydra vulgaris).
OC Eukaryota; Metazoa; Cnidaria; Hydrozoa; Anthomedusae;
OC Hydridae; Hydra.
OX NCBI_TaxID=6087;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Irvine;
RX MEDLINE=20209407; PubMed=10744720;
RA Reidling J.C., Miller M.A., Steele R.E.;
RT "Sweet Tooth, a Novel Receptor Protein-tyrosine Kinase with C-type
RT Lectin-like Extracellular Domains";
RL J. Biol. Chem. 275:10323-10330(2000).
DR EMBL; L22612; AAA29218.2; -.
DR HSSP; P11362; IFGK.
DR GO; GO:0005524; F:ATP binding; IEA.
DR GO; GO:0004713; F:protein-tyrosine kinase activity; IEA.
DR GO; GO:0004872; F:receptor activity; IEA.
DR GO; GO:0005529; F:sugar binding; IEA.
DR GO; GO:0016740; F:transferase activity; IEA.
DR GO; GO:0006468; P:protein amino acid phosphorylation; IEA.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR003990; Pancreatins.ac.
DR InterPro; IPR000719; Prot_kinase.
DR InterPro; IPR001245; Tyr_pkinase.
DR InterPro; IPR008266; Tyr_pkinase_AS.
DR Pfam; PF00059; lectin_c; 4.
DR Pfam; PF00069; pkinase; 1.
DR PRINTS; PR01504; PNCREATITSAP.
DR ProDom; PD000001; Prot_kinase; 2.
DR SMART; SM00034; CLECT; 4.
DR SMART; SM00219; TyrKc; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 2.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 4.
DR PROSITE; PS00107; PROTEIN_KINASE_ATP; 1.
DR PROSITE; PS50011; PROTEIN_KINASE_DOM; 1.
DR PROSITE; PS00109; PROTEIN_KINASE_TYR; 1.
KW ATP-binding; Kinase; Receptor; Transferase; Tyrosine-protein kinase.
SQ SEQUENCE 1348 AA; 156916 MW; 77D2122033227FEF CRC64;
Query Match 15.9%; Score 177.5; DB 5; Length 1348;
Best Local Similarity 28.0%; Pred. No. 4.9e-08;
Matches 47; Conservative 32; Mismatches 46; Indels 43; Gaps 8;
QY 6 LSGQPVC--RGGTQRPC-----YKVIYFHDTSRRLLNFEAEKACRRDGGQLVSISEDE 57
Db 412 LSHRFICKVKRATNEYCAEGWTSYRIYCFIYSIEFDWFKSFSSCCQIGNLLSIENQEE 471
QY 58 QKLEKFIENLLPSDGD-FWIGLRR-----RBEKQSNSTACQDLVATDGSISQFRNWWY 110

Db 472 ---NRFIENDLIKNDKQYIGLKNKIWNLYLKKNR-----FEWSDNTYTQFFNWI 518
QY 111 VDEP--SCGSEVCVVMYHQPSAPAGIGGPYMFQWNDRCNMKNFICK 156
Db 519 TNQPDNNGNGIESCVEMNYN-----GWSDECKVLNGFICK 553
RESULT 14
Q9Y5P9 ID Q9Y5P9 PRELIMINARY; PRT; 1479 AA.
AC Q9Y5P9;
DT 01-NOV-1999 (TrEMBLrel. 12, Created)
DT 01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Endocytic receptor Endo180.
GN ENDO180.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20148849; PubMed=10683150;
RA Sheikh H., Yarwood H., Ashworth A., Isacke C.;
RT "Endo180, an endocytic recycling glycoprotein related to the
RT macrophage mannose receptor is expressed on fibroblasts, endothelial
RT cells and macrophages and functions as a lectin receptor.";
RL J. Cell Sci. 113:1021-1032(2000).
DR EMBL; AF134838; AAD30280.1; -.
DR HSSP; P02751; 2FN2.
DR GO; GO:0004872; F:receptor activity; IEA.
DR GO; GO:0005529; F:sugar binding; IEA.
DR GO; GO:0005215; F:transporter activity; IEA.
DR GO; GO:0006810; P:transport; IEA.
DR InterPro; IPR000562; FN_Type_II.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR000566; Lipocln_cytFABP.
DR InterPro; IPR008997; RicinB_like.
DR InterPro; IPR000772; Ricin_B_lectin.
DR Pfam; PF00040; fn2; 1.
DR Pfam; PF00059; lectin_c; 8.
DR PRINTS; PR00013; FNTYPEII.
DR ProDom; PD000995; FN_Type_II; 1.
DR SMART; SM00034; CLECT; 8.
DR SMART; SM00059; FN2; 1.
DR SMART; SM00458; RICIN; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 3.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 8.
DR PROSITE; PS00023; FIBRONECTIN_2; 1.
DR PROSITE; PS00213; LIPOCALIN; 1.
DR PROSITE; PS50231; RICIN_B_LLECTIN; 1.
KW Receptor.
SQ SEQUENCE 1479 AA; 166669 MW; 9F4BAF355F036FCE CRC64;
Query Match 15.8%; Score 176.5; DB 4; Length 1479;
Best Local Similarity 30.4%; Pred. No. 6.9e-08;
Matches 51; Conservative 25; Mismatches 57; Indels 35; Gaps 7;
QY 7 SQGPVCRGGTQRPCYKVIYFHDTSRRLLNFEAEKACRRDGGQLVSISEDEQKLEKFI 66
Db 385 SWQPF-----QGHCVRL-----QAEKRSWQESKKACLRGGDLVSIHMAELEFITKQIK 434
QY 67 NLLPSDGDGFWIGLRRREEKQSNSTACQDLVATDGSISQFRNWWYVDEPS---CGSEVCVV 123
Db 435 QEVE---ELWIGL-----NDLKLQMFWSGSLVSFTHWHPFNFRDSDLCVT 483
QY 124 MYHQPSAPAGIGGPYMFQWNDRCNMKNFICKYSDEKPAVPSREAE 171
Db 484 IW----GPEG-----RWNDSPCNQSLPSICKKAGQLSQGAAEEDHG 520
RESULT 15
Q9UBG0

ID Q9UBG0 PRELIMINARY; PRT; 1479 AA.
AC Q9UBG0;
DT 01-MAY-2000 (Tremblrel. 13, Created)
DT 01-MAY-2000 (Tremblrel. 13, Last sequence update)
DT 01-OCT-2003 (Tremblrel. 25, Last annotation update)
DE Urokinase receptor-associated protein UPARAP.
GN KIAA0709.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Behrendt N., Jensen O.N., Engelholm L.H., Mortz E., Mann M., Danø K.;
RT "A urokinase receptor-associated protein with specific collagen-
RT binding properties.";
RL Submitted (NOV-1998) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Brain;
RX MEDLINE=98403880; PubMed=9734811;
RA Ishikawa K., Nagase T., Suyama M., Miyajima N., Tanaka A., Kotani H.,
RA Nomura N., Ohara O.;
RT "Prediction of the coding sequences of unidentified human genes. X.
RT The complete sequences of 100 new cDNA clones from brain which can
RT code for large proteins in vitro.";
RL DNA Res. 5:169-176(1998).
DR EMBL; AF107292; AAF14192.1; -.
DR EMBL; AB014609; BAA31684.1; -.
DR HSSP; P02751; 2FN2.
DR Genew; HGNC:16875; MRC2.
DR GO; GO:0016301; F:kinase activity; IEA.
DR GO; GO:0004872; F:receptor activity; IEA.
DR GO; GO:0005529; F:sugar binding; IEA.
DR GO; GO:0005215; F:transporter activity; IEA.
DR GO; GO:0006810; P:transport; IEA.
DR InterPro; IPR000562; FN_Type_II.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR000566; Lipocln_cytFABP.
DR InterPro; IPR008997; RicinB_Like.
DR InterPro; IPR000772; Ricin_B_lectin.
DR Pfam; PF00040; fn2; 1.
DR Pfam; PF00059; lectin_c; 8.
DR PRINTS; PR00013; FNTYPEII.
DR ProDom; PD000995; FN_Type_II; 1.
DR SMART; SM00034; CLECT; 8.
DR SMART; SM00059; FN2; 1.
DR SMART; SM00458; RICIN; 1.
DR PROSITE; PS00615; C_TYPE_LECTIN_1; 3.
DR PROSITE; PS50041; C_TYPE_LECTIN_2; 8.
DR PROSITE; PS00023; FIBRONECTIN_2; 1.
DR PROSITE; PS00213; LIPOCALIN; 1.
DR PROSITE; PS50231; RICIN_B_LECTIN; 1.
KW Kinase; Receptor.
SQ SEQUENCE 1479 AA; 166654 MW; C7583EA78E2792D1 CRC64;

Query Match 15.8%; Score 176.5; DB 4; Length 1479;
Best Local Similarity 30.4%; Pred. No. 6.9e-08;
Matches 51; Conservative 25; Mismatches 57; Indels 35; Gaps 7;

QY 7 SGQPVCRGGTQPCYKVIYFHDTSRRLNFEAEKACRRDGGQLVSIIESEDEQKLIKIEFIE 66
Db 385 SWQPF-----QGHCYRL-----QAERSWQESKKACLRGGGDLVSIHSMAELEFITKQIK 434
QY 67 NLLPSDGDGDFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWNVYDEPS---CGSEVVCV 123
Db 435 QEVE---ELWIGL-----NDLKLQMNFEWSGSLVSFTWHHPFEPNFRDSDLDCVT 483

QY 124 MYHQPSAPAGIGGPFMFQWDDRCNMKNFICKYSDEKPAVPSPREAG 171
Db 484 IW----GPEG-----RWNDSPCNQSLPSICKKAGQLSQGAABEDHG 520

RESULT 16
Q64449 PRELIMINARY; PRT; 1479 AA.
ID Q64449;
AC Q64449;
DT 01-NOV-1996 (Tremblrel. 01, Created)
DT 01-NOV-1996 (Tremblrel. 01, Last sequence update)
DT 01-OCT-2003 (Tremblrel. 25, Last annotation update)
DE Lectin lambda.
GN MRC2.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=96355501; PubMed=8702911;
RA Wu K., Yuan J., Lasky L.A.;
RT "Characterization of a novel member of the macrophage mannose receptor
RT type C lectin family.";
RL J. Biol. Chem. 271:21323-21330(1996).
DR EMBL; U56734; AAC52729.1; -.
DR PIR; T42710; T42710.
DR HSSP; P02751; 2FN2.
DR MGD; MGI:107818; Mrc2.
DR GO; GO:0005529; F:sugar binding; IEA.
DR GO; GO:0005215; F:transporter activity; IEA.
DR GO; GO:0006118; P:electron transport; IEA.
DR GO; GO:0006810; P:transport; IEA.
DR InterPro; IPR002353; AntifreezeII.
DR InterPro; IPR001128; Cytochrome_P450.
DR InterPro; IPR000562; FN_Type_II.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR000566; Lipocln_cytFABP.
DR InterPro; IPR008997; RicinB_Like.
DR InterPro; IPR000772; Ricin_B_lectin.
DR Pfam; PF00040; fn2; 1.
DR Pfam; PF00059; lectin_c; 8.
DR PRINTS; PR00356; ANTIFREEZEII.
DR PRINTS; PR00013; FNTYPEII.
DR ProDom; PD000995; FN_Type_II; 1.
DR SMART; SM00034; CLECT; 8.
DR SMART; SM00059; FN2; 1.
DR SMART; SM00458; RICIN; 1.
DR PROSITE; PS00086; CYTOCHROME_P450; 1.
DR PROSITE; PS00615; C_TYPE_LECTIN_1; 3.
DR PROSITE; PS50041; C_TYPE_LECTIN_2; 8.
DR PROSITE; PS00023; FIBRONECTIN_2; 1.
DR PROSITE; PS00213; LIPOCALIN; 1.
DR PROSITE; PS50231; RICIN_B_LECTIN; 1.
SQ SEQUENCE 1479 AA; 167112 MW; 62D456E10B9B48C1 CRC64;

Query Match 15.3%; Score 170.5; DB 11; Length 1479;
Best Local Similarity 31.4%; Pred. No. 2.6e-07;
Matches 48; Conservative 22; Mismatches 48; Indels 35; Gaps 7;

QY 7 SGQPVCRGGTQPCYKVIYFHDTSRRLNFEAEKACRRDGGQLVSIIESEDEQKLIKIEFIE 66
Db 384 SWQPF-----QGHCYRL-----QAERSWQESKKACLRGGGDLVSIHSMAELEFITKQIK 433
QY 67 NLLPSDGDGDFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWNVYDEPS---CGSEVVCV 123
Db 434 QEVE---ELWIGL-----NDLKLQMNFEWSGSLVSFTWHHPFEPNFRDSDLDCVT 482

QY 124 MYHQPSAPAGIGGPFMFQWDDRCNMKNFICK 156
Db 483 IW----GPEG-----RWNDSPCNQSLPSICK 504

RESULT 17
Q8C4F8 PRELIMINARY; PRT; 217 AA.
ID Q8C4F8
AC Q8C4F8;
DT 01-MAR-2003 (Tremblrel. 23, Created)

QY 139 MFQWDDRCNMKNFICKYSDEKPAVPS 166
DB 714 AGQWDFQCDEINNFI--KEREA VPS 739

RESULT 20
Q9XYX3
ID Q9XYX3 PRELIMINARY; PRT; 134 AA.
AC Q9XYX3;
DT 01-NOV-1999 (TrEMBLrel. 12, Created)
DT 01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Receptor protein-tyrosine kinase (Fragment).
GN HTK28.
OS Hydra magnipapillata (Hydra).
OC Eukaryota; Metazoa; Cnidaria; Hydrozoa; Hydroida; Anthomedusae;
OC Hydroidea; Hydra.
OX NCBI_TaxID=6085;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=105;
RX MEDLINE=20209407; PubMed=10744720;
RA Reidling J.C., Miller M.A., Steele R.E.;
RT "Sweet Tooth, a Novel Receptor Protein-tyrosine Kinase with C-type
RT Lectin-like Extracellular Domains.";
RL J. Biol. Chem. 275:10323-10330(2000).
DR EMBL; AF129528; AAD30040.1; -.
DR HSSP; P22897; 1EGG.
DR GO; GO:0016301; F:kinase activity; IEA.
DR GO; GO:0004713; F:protein-tyrosine kinase activity; IEA.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR001304; LECTIN_C.
DR Pfam; PF00059; lectin_c; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
KW Kinase; Tyrosine-protein kinase.
FT NON_TER 1
FT NON_TER 134
FT NON_TER 134
SQ SEQUENCE 134 AA; 15701 MW; E7B7211C881009BC CRC64;

Query Match 14.5%; Score 161.5; DB 5; Length 134;
Best Local Similarity 28.8%; Pred. No. 1.1e-07;
Matches 40; Conservative 23; Mismatches 51; Indels 25; Gaps 5;

QY 20 CYKVIYFHTSRLNFEEAKEACRRDGGQLVSI--E--DEQKLI--FIENLLPSDGD--FWIGL 79
DB 16 CY--FFQNTLQAKNWRDASLSQALG--HLLSIEDQAENFFILFLKDS--MQQDN--YVIGL 73
QY 80 RRREEKQNSTACQDLYAWTDGSI--QFRN--WYVDEPS--CGSEVCVVMYHQP--SAPAGIGGP 137
DB 74 -----NDASNNREFRWSDDKIPQFFNWLPKKPNNDQSEQNCV-----ETNSMG-- 116

QY 138 YMFQWDDRCNMKNFICK 156
DB 117 ----WNDENCDATNGFICK 131

RESULT 21
Q8VIF6
ID Q8VIF6 PRELIMINARY; PRT; 742 AA.
AC Q8VIF6;
DT 01-MAR-2002 (TrEMBLrel. 20, Created)
DT 01-MAR-2002 (TrEMBLrel. 20, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Scavenger receptor with C-type lectin.
GN COLEC12 OR SRCL.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.

RX MEDLINE=21575692; PubMed=11718900;
RA Nakamura K., Funakoshi H., Tokunaga F., Nakamura T.;
RT "Molecular cloning of a mouse scavenger receptor with C-type lectin
RT (SRCL)(1), a novel member of the scavenger receptor family.";
RL Biochim. Biophys. Acta 1522:53-58(2001).
DR EMBL; AB038519; BAB82497.1; -.
DR MGD; MGI:2152907; Colec12.
DR GO; GO:0006955; P:immune response; IDA.
DR GO; GO:0006910; P:phagocytosis, binding; IDA.
DR InterPro; IPR002353; AntifreezeII.
DR InterPro; IPR008160; Collagen.
DR InterPro; IPR001304; LECTIN_C.
DR Pfam; PF01391; Collagen; 2.
DR Pfam; PF00059; lectin_c; 1.
DR PRINTS; PR00356; ANTIFREEZEII.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
KW Receptor; Lectin.
SQ SEQUENCE 742 AA; 81307 MW; 85A90D3AE881DB6B CRC64;

Query Match 14.3%; Score 159.5; DB 11; Length 742;
Best Local Similarity 33.1%; Pred. No. 1.3e-06;
Matches 49; Conservative 17; Mismatches 55; Indels 27; Gaps 8;

QY 20 CYKVIYFHTSRLNFEEAKEACRRDGGQLVSI--E--DEQKLI--FIENLLPSDGD--FWIGL 79
DB 618 CY--YF--SLEKEILEDKLFCEKSSHLVFIN--SREEQWIKKH---TVGRESHWIGL 668

QY 80 RRREEKQNSTACQDLYAWTDGSI--QFRN--WYVDEP--SCGSEVCVVMYHQP--SAPAGIGGP 138
DB 669 TDSEQ--E-----WKWLDGSPVDYKNWKAGQPDN--WGS-----HGPGECA--GLIY 713

QY 139 MFQWDDRCNMKNFICKYSDEKPAVPS 166
DB 714 AGQWDFQCDEINNFI--KEREA VPS 739

RESULT 22
Q8CJ86
ID Q8CJ86 PRELIMINARY; PRT; 142 AA.
AC Q8CJ86;
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE SIGNR1 (Fragment).
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Swiss Webster; TISSUE=Skin;
RX MEDLINE=22133304; PubMed=12137941;
RA Parent S.A., Zhang T., Chretien G., Clemenas J.A., Figueroa D.J., Ky B.,
RA Blevins R.A., Austin C.P., Rosen H.;
RT "Molecular characterization of the murine SIGNR1 gene encoding a C-
RT type lectin homologous to human DC-SIGN and DC-SIGNR.";
RL Gene 293:33-46(2002).
DR EMBL; AF424802; AAN75597.1; -.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR002353; AntifreezeII.
DR InterPro; IPR001304; LECTIN_C.
DR Pfam; PF00059; lectin_c; 1.
DR PRINTS; PR00356; ANTIFREEZEII.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
FT NON_TER 1
FT NON_TER 1
SQ SEQUENCE 142 AA; 16437 MW; 0CBB36A383D025EF CRC64;

Query Match 14.2%; Score 158; DB 11; Length 142;
Best Local Similarity 32.4%; Pred. No. 2.5e-07;

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Matches 48; Conservative 21; Mismatches 45; Indels 34; Gaps 9;
QY 25 YFHTSRLNFEAEACRRDGGQLVSIIESEDEQKLIKFIENLLPSDGFHWIGLRRRE 84
Db 24 YFFSKSQR-NWNDVAVTACKVKAQLVIINSDEEQ-----TFLQOTSKAKGPTWGLSLDKK 78
QY 85 KQSNSTACQDLYAWTDGSI--SQFRN-WYVDEP-SCGSEVCVVMYHQPSAPAGIGGPPYMF 140
Db 79 EAT-----WLWVDGSTLSSRFQKYWNRGEPNNIGEEDCVEF-----AGDG----- 118
QY 141 QWDDRCNMKNFICKYSDEKPAVPSRE 168
Db 119 -WNSKCEKFKWICK----KSATPCTE 141

RESULT 23
Q8BHK7
ID Q8BHK7 PRELIMINARY; PRT; 142 AA.
AC Q8BHK7;
DT 01-MAR-2003 (TremBLrel. 23, Created)
DT 01-MAR-2003 (TremBLrel. 23, Last sequence update)
DT 01-OCT-2003 (TremBLrel. 25, Last annotation update)
DE SIGNR1 (Fragment).
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Euthera; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Swiss Webster; TISSUE=Spleen;
RX MEDLINE=22133304; PubMed=12137941;
RA Parent S.A., Zhang T., Chretien G., Clemas J.A., Figueroa D.J., Ky B.,
RA Blevins R.A., Austin C.P., Rosen H.;
RT "Molecular characterization of the murine SIGNR1 gene encoding a C-
RT type lectin homologous to human DC-SIGN and DC-SIGNR."
RL Gene 293:33-46 (2002).
DR EMBL; AF424800; AAN75595.1; -.
DR EMBL; AF424801; AAN75596.1; -.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR002353; AntifreezeII.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; lectin_C; 1.
DR PRINTS; PRO0356; ANTIFREEZEII.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
FT NON_TER
SQ SEQUENCE 142 AA; 16471 MW; 0CB36A383D887EF CRC64;

Query Match 14.2%; Score 158; DB 11; Length 142;
Best Local Similarity 32.4%; Pred. No. 2.5e-07;
Matches 48; Conservative 21; Mismatches 45; Indels 34; Gaps 9;
QY 25 YFHTSRLNFEAEACRRDGGQLVSIIESEDEQKLIKFIENLLPSDGFHWIGLRRRE 84
Db 24 YFFSKSQR-NWNDVAVTACKVKAQLVIINSDEEQ-----TFLQOTSKAKGPTWGLSLDKK 78
QY 85 KQSNSTACQDLYAWTDGSI--SQFRN-WYVDEP-SCGSEVCVVMYHQPSAPAGIGGPPYMF 140
Db 79 EAT-----WLWVDGSTLSSRFQKYWNRGEPNNIGEEDCVEF-----AGDG----- 118
QY 141 QWDDRCNMKNFICKYSDEKPAVPSRE 168
Db 119 -WNSKCEKFKWICK----KSATPCTE 141

RESULT 24
Q91ZW4
ID Q91ZW4 PRELIMINARY; PRT; 295 AA.
AC Q91ZW4;
DT 01-DEC-2001 (TremBLrel. 19, Created)
DT 01-DEC-2001 (TremBLrel. 19, Last sequence update)
DT 01-OCT-2003 (TremBLrel. 25, Last annotation update)

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DE SIGNR1 TM-less isoform.
GN CD209B OR SIGNR1.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Euthera; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6;
RA Park C.G., Steinman R.M.;
RT "Alternatively Spliced Forms of Mouse DC-SIGN Homologs."
RL Submitted (APR-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF374471; AAL27540.1; -.
DR MGD; MGI:1916415; CD209b.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR002353; AntifreezeII.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; lectin_C; 1.
DR PRINTS; PRO0356; ANTIFREEZEII.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
SQ SEQUENCE 295 AA; 33888 MW; A491F7D3551A91D0 CRC64;

Query Match 14.2%; Score 158; DB 11; Length 295;
Best Local Similarity 32.4%; Pred. No. 5.9e-07;
Matches 48; Conservative 21; Mismatches 45; Indels 34; Gaps 9;
QY 25 YFHTSRLNFEAEACRRDGGQLVSIIESEDEQKLIKFIENLLPSDGFHWIGLRRRE 84
Db 177 YFFSKSQR-NWNDVAVTACKVKAQLVIINSDEEQ-----TFLQOTSKAKGPTWGLSLDKK 231
QY 85 KQSNSTACQDLYAWTDGSI--SQFRN-WYVDEP-SCGSEVCVVMYHQPSAPAGIGGPPYMF 140
Db 232 EAT-----WLWVDGSTLSSRFQKYWNRGEPNNIGEEDCVEF-----AGDG----- 271
QY 141 QWDDRCNMKNFICKYSDEKPAVPSRE 168
Db 272 -WNSKCEKFKWICK----KSATPCTE 294

RESULT 25
Q9D8V4
ID Q9D8V4 PRELIMINARY; PRT; 311 AA.
AC Q9D8V4;
DT 01-JUN-2001 (TremBLrel. 17, Created)
DT 01-JUN-2001 (TremBLrel. 17, Last sequence update)
DT 01-OCT-2003 (TremBLrel. 25, Last annotation update)
DE 1810030I22Rik protein.
GN CD209B OR 1810030I22RIK.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Euthera; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Pancreas;
RX MEDLINE=21085660; PubMed=11217851;
RA Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
RA Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,
RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I.,
RA Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,
RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
RA Fleischmann W., Gaasterland T., Gissi C., King B., Kochiwa H.,
RA Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
RA Schriml L.M., Stauber F., Suzuki R., Tomita M., Wagner L., Washio T.,
RA Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,
RA Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,
RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
RA Gustincich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,
RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,
RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
RA Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,

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RA Suzuki H., Toyo-oka K., Wang K.H., Weitz C., Whittaker C., Wilming L.,
RA Wynshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohtsuki S.,
RA Hayashizaki Y.,
RA "Functional annotation of a full-length mouse cDNA collection.";
RL Nature 409:685-690(2001).
DR EMBL; AK007656; BAB25166.1; -.
DR HSSP; P22897; 1EGG.
DR MGD; MGI:1916415; Cd209b.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR002353; AntifreezeII.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; lectin_c; 1.
DR PRINTS; PR00356; ANTIFREEZEII.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
SQ SEQUENCE 311 AA; 35618 MW; 92353503D2EF9041 CRC64;

Query Match 14.2%; Score 158; DB 11; Length 311;
Best Local Similarity 32.4%; Pred.No. 6.3e-07;
Matches 48; Conservative 21; Mismatches 45; Indels 34; Gaps 9;

QY 25 YFHDTSRLNFEAEKACRRDGGQLVSIIESEDEQKLIIEKFIENLLPSDGFWIGLRRRE 84
Db 193 YFFSKSQ-R-NWDAVTACKVEKVAQLVIINSDEEQ-----TFLOQTSKAKGPTWMGLSDLKK 247

QY 85 KQSNSTACQDLYAWTDGSI--SQFRN-WYVDEP-SCGSEVCVVMYHQPAPAGIGGPFYMF 140
Db 248 EAT-----WLWVDGSTLSSRFQKYWNRGEPNNIGEEDCVEF-----AGDG----- 287

QY 141 QWNDDRCNMKNFICKYSDEKPAVPSRE 168
Db 288 -WNDSKCELKFKWICK----KSATPCTE 310

RESULT 26
Q91ZX0
ID Q91ZX0 PRELIMINARY; PRT; 325 AA.
AC Q91ZX0;
DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE SIGNR1 (Type II transmembrane receptor OtB7).
GN CD209B OR SIGNR1.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6;
RX PubMed=11581173;
RA Park C.G., Takahara K., Umemoto E., Yashima Y., Matsubara K.,
RA Matsuda Y., Clausen B.E., Inaba K., Steinman R.M.;
RT "Five mouse homologues of the human dendritic cell C-type lectin, DC-
RT SIGN.",
RL Int. Immunol. 13:1283-1290(2001).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=BALB/c; TISSUE=Thoracic lymph node;
RX MEDLINE=22238330; PubMed=12351402;
RA Geijtenbeek T.B.H., Groot P.C., Nolte M.A., Van Vliet S.J.,
RA Gangaram-Panday S.T., Van Duijnhoven G.C.F., Kraal G.,
RA Van Oosterhout A.J.M., Van Kooyk Y.;
RT "Marginal zone macrophages express a murine homologue of DC-SIGN that
RT captures blood-borne antigens in vivo.";
RL Blood 100:2908-2916(2002).
DR EMBL; AF373409; AAL13235.1; -.
DR EMBL; AF422108; AAN31450.1; -.
DR MGD; MGI:1916415; Cd209b.
DR GO; GO:0016021; C:integral to membrane; IEA.
DR GO; GO:0004872; F:receptor activity; IEA.
DR GO; GO:0005529; F:sugar binding; IEA.

DR InterPro; IPR002353; AntifreezeII.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; lectin_c; 1.
DR PRINTS; PR00356; ANTIFREEZEII.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
KW Receptor; Transmembrane.
SQ SEQUENCE 325 AA; 37111 MW; 9C9388407C247CA4 CRC64;

Query Match 14.2%; Score 158; DB 11; Length 325;
Best Local Similarity 32.4%; Pred.No. 6.7e-07;
Matches 48; Conservative 21; Mismatches 45; Indels 34; Gaps 9;

QY 25 YFHDTSRLNFEAEKACRRDGGQLVSIIESEDEQKLIIEKFIENLLPSDGFWIGLRRRE 84
Db 207 YFFSKSQ-R-NWDAVTACKVEKVAQLVIINSDEEQ-----TFLOQTSKAKGPTWMGLSDLKK 261

QY 85 KQSNSTACQDLYAWTDGSI--SQFRN-WYVDEP-SCGSEVCVVMYHQPAPAGIGGPFYMF 140
Db 262 EAT-----WLWVDGSTLSSRFQKYWNRGEPNNIGEEDCVEF-----AGDG----- 301

QY 141 QWNDDRCNMKNFICKYSDEKPAVPSRE 168
Db 302 -WNDSKCELKFKWICK----KSATPCTE 324

RESULT 27
Q90WI7
ID Q90WI7 PRELIMINARY; PRT; 158 AA.
AC Q90WI7;
DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE C-type lectin-like protein 2.
OS Bungarus fasciatus (Banded krait).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Lepidosauria; Squamata; Scleroglossa; Serpentes; Colubroidea;
OC Elapidae; Bungarinae; Bungarus.
OX NCBI_TaxID=8613;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Venom gland;
RA Zha H.-G., Zhang Y.;
RT "cDNA cloning and characterization of C-type lectin-like proteins from
RT Elapidae snakes.";
RL Submitted (FEB-2001) to the EMBL/GenBank/DBDJ databases.
DR EMBL; AF354271; AAK43585.1; -.
DR GO; GO:0005529; F:sugar binding; IEA.
DR GO; GO:0007157; P:heterophilic cell adhesion; IEA.
DR InterPro; IPR002353; AntifreezeII.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR003990; Pancreatins_ac.
DR Pfam; PF00059; lectin_c; 1.
DR PRINTS; PR00356; ANTIFREEZEII.
DR PRINTS; PR01504; PNCREATITSAP.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
KW Lectin.
SQ SEQUENCE 158 AA; 18254 MW; 5F0218970DA17453 CRC64;

Query Match 14.1%; Score 157; DB 13; Length 158;
Best Local Similarity 29.1%; Pred.No. 3.5e-07;
Matches 41; Conservative 26; Mismatches 48; Indels 26; Gaps 6;

QY 20 CYKVIYFHDTSRLNFEAEKACR--RDGGQLVSIIESEDEQKLIIEKFIENLLPSDGFWI 77
Db 37 CYKVF-----SNPKSWLDAEMFCRKFKPGCLASIHRSADSAADLAIEYVSDYLDKDDGNVWI 91

QY 78 GLRRREEKQSNSTACQDLYAWTDGSIQFRNWIYVDEP--SCGSEVCVVMYHQPAPAGIG 135
Db 92 GLNDPQKRT-----VWWSDRSSSNFYFSWNOGEPNNSKNKEYCVHLW-----APTG-- 137

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QY 136 GPYMFQWNDRCNMKNPFICK 156
Db 138 ---YLKWNDAPCETHLPFICQ 155

RESULT 28
Q8CJ91
ID Q8CJ91 PRELIMINARY; PRT; 323 AA.
AC Q8CJ91;
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE SIGNR1 alpha (Fragment).
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Euthera; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RC SEQUENCE FROM N.A.
RX STRAIN=Swiss Webster; TISSUE=Skin;
RX MEDLINE=2213304; PubMed=12137941;
RA Parent S.A., Zhang T., Chretien G., Clemas J.A., Figueroa D.J., Ky B.,
RA Blevins R.A., Austin C.P., Rosen H.;
RT "Molecular characterization of the murine SIGNR1 gene encoding a C-
type lectin homologous to human DC-SIGN and DC-SIGNR.";
RL Gene 293:33-46(2002).
DR EMBL; AF424793; AAN75588.1; --
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR002353; AntifreezeII.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; lectin_c; 1.
DR PRINTS; PR00356; ANTIFREEZEII.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LECTIN_2; 1.
FT NON TER 323
SQ SEQUENCE 323 AA; 36907 MW; 3D7C512B49386C9D CRC64;

Query Match 14.0%; Score 156; DB 11; Length 323;
Best Local Similarity 32.4%; Pred. No. 1e-06;
Matches 47; Conservative 21; Mismatches 43; Indels 34; Gaps 9;

QY 25 YFHDTSRRLNFEAEKACRRDGGQLVSIIEDEQKLEKFIENLLPSDGFWGLRRREE 84
Db 207 YFFSKSQR-NWDAVTAACKAKQLVIINSEDEQ---TFLQQTSAKAGPTWGLSLDKK 261

QY 85 KQSNSTACQDLYAWTDGSI--SQFRN-WYVDEP-SCGSEVCVVMYHQPSAPAGIGGPPYMF 140
Db 262 EAT-----WLWVDGSLSSRFQKYWRNGEPNNGEEDCVF-----AGDG----- 301

QY 141 QWNDRCNMKNPFICKYDEKPAVP 165
Db 302 -WNSKCELKFKWICK----KSATP 321

RESULT 29
Q95244
ID Q95244 PRELIMINARY; PRT; 339 AA.
AC Q95244;
DT 01-FEB-1997 (TrEMBLrel. 02, Created)
DT 01-FEB-1997 (TrEMBLrel. 02, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Cartilage aggregating proteoglycan (Fragment).
OS Sus scrofa (Pig).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Euthera; Cetartiodactyla; Suina; Suidae; Sus.
OX NCBI_TaxID=9823;
RN [1]
RC SEQUENCE FROM N.A.
RX MEDLINE=96190740; PubMed=8611178;
RA Dudhia J., Davidson C.M., Wells T.M., Vynios D.H., Hardingham T.E.,
RA Bayliss M.T.;

"Age-related changes in the content of the C-terminal region of
aggrecan in human articular cartilage.";
Biochem. J. 313:933-940(1996).
DR EMBL; X60107; CAA42701.1; --
DR HSSP; P23806; IIXX.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR000436; Sushi_SCR_CCP.
DR Pfam; PF00059; lectin_c; 1.
DR Pfam; PF00084; sushi_1.
DR SMART; SM00032; CCP; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LECTIN_2; 1.
FT NON TER 1
SQ SEQUENCE 339 AA; 37813 MW; D99C4B81E30A9A6F CRC64;

Query Match 14.0%; Score 156; DB 6; Length 339;
Best Local Similarity 24.9%; Pred. No. 1.e-06;
Matches 44; Conservative 30; Mismatches 63; Indels 40; Gaps 8;

QY 9 QPVCRCGGT--QRPCYKVIYFHDTSRRLNFEAEKACRRDGGQLVSIIEDEQKLEKFI 66
Db 127 QKLCENGSIQGHQYR--HFPD---RATWDAESQCRKQKQSHLSSIVTPEEQEFVNNNAQ 181

QY 67 NLLPSDGDWFGLRRREKQSNSTACQDLYAWTDGSIISQFRNWWYVDEP-----SCGSEVCV 122
Db 182 EYQ-----WIGL-----NDKTIEGDFRWSHGSLQFESWSPNQPNFFATGEDCVV 227

QY 123 VMYHQPSAPAGIGGPPYMFQWNDRCNMKNPFICKYS---DEKPAVPSREAEGETE 175
Db 228 MTWHEKG-----EWNDVPCNYQLPFTCKGTACGEPVVEHARIFGKKKD 273

RESULT 30
Q8BGZ0
ID Q8BGZ0 PRELIMINARY; PRT; 293 AA.
AC Q8BGZ0;
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE SIGNR1 beta (Fragment).
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Euthera; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RC SEQUENCE FROM N.A.
RX STRAIN=Swiss Webster; TISSUE=Spleen;
RX MEDLINE=2213304; PubMed=12137941;
RA Parent S.A., Zhang T., Chretien G., Clemas J.A., Figueroa D.J., Ky B.,
RA Blevins R.A., Austin C.P., Rosen H.;
RT "Molecular characterization of the murine SIGNR1 gene encoding a C-
type lectin homologous to human DC-SIGN and DC-SIGNR.";
RL Gene 293:33-46(2002).
DR EMBL; AF424797; AAN75592.1; --
DR EMBL; AF424798; AAN75593.1; --
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR002353; AntifreezeII.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; lectin_c; 1.
DR PRINTS; PR00356; ANTIFREEZEII.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LECTIN_2; 1.
FT NON TER 293
SQ SEQUENCE 293 AA; 33698 MW; 6113551A91D09BCA CRC64;

Query Match 13.9%; Score 155; DB 11; Length 293;
Best Local Similarity 32.4%; Pred. No. 1.e-06;
Matches 47; Conservative 21; Mismatches 43; Indels 34; Gaps 9;

QY 25 YFHDTSRRLNFEAEKACRRDGGQLVSIIEDEQKLEKFIENLLPSDGFWGLRRREE 84
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Db	177	YFFSKSOR-NWDAVTA	CKEVAQLVIINSDEEQ-----TFLQOTSKAKGPTWGLSDLKK	231
Qy	85	KQSNSTACQDLYAWTDGSI--SQFRN-WYVDEP-SCGSEVCVVMYHQPSAPAGIGGPFYMF	140	
Db	232	EAT-----WLWVDGSTLSSRFQKYWNRGEPNNIGEEDCVEF-----AGDG-----	271	
Qy	141	QWNDDRCNMKNPFICKYSDEKPAVP	165	
Db	272	-WNDSKCELKFKFWICK-----KSATP	291	
RESULT 31				
Q8CJ94	ID	Q8CJ94	PRELIMINARY; PRT; 323 AA.	
AC	Q8CJ94;			
DT	01-MAR-2003	(TReMBLrel. 23, Created)		
DT	01-MAR-2003	(TReMBLrel. 23, Last sequence update)		
DT	01-OCT-2003	(TReMBLrel. 25, Last annotation update)		
DE	SIGNR1	(Fragment).		
OS	Mus musculus	(Mouse).		
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.			
OX	NCBI_TaxID=10090;			
RN	[1]			
RP	SEQUENCE FROM N.A.			
RC	STRAIN=Swiss Webster; TISSUE=Skin;			
RX	MEDLINE=2213304; PubMed=12137941;			
RA	Parent S.A., Zhang T., Chretien G., Clemas J.A., Figueroa D.J., Ky B.,			
RA	Blevins R.A., Austin C.P., Rosen H.,			
RT	"Molecular characterization of the murine SIGNR1 gene encoding a C-			
RT	type lectin homologous to human DC-SIGN and DC-SIGNR.";			
RL	Gene 293:33-46(2002).			
DR	EMBL; AF424790; AAN75585.1; --			
DR	GO; GO:0005529; F:sugar binding; IEA.			
DR	InterPro; IPR002353; AntifreezeII.			
DR	InterPro; IPR001304; Lectin_C.			
DR	Pfam; PF00059; lectin C; 1.			
DR	PRINTS; PR00356; ANTIFREEZEII.			
DR	SMART; SM00034; CLECT; 1.			
DR	PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.			
DR	PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.			
FT	NON TER	323		
SQ	SEQUENCE	323 AA; 36819 MW; EDA0E46E1969AE54 CRC64;		
Query Match 13.9%; Score 155; DB 11; Length 323;				
Best Local Similarity 32.4%; Pred. No. 1.3e-06;				
Matches 47; Conservative 21; Mismatches 43; Indels 34; Gaps 9;				
Qy	25	YFHDTSRRLNFEAKEACRRDGGQLVSIIESEDEQKLEKFIENLLPSDGDGFWIGLRRREE	84	
Db	207	YFFSKSOR-NWDAVTA	CKEVAQLVIINSDEEQ-----TFLQOTSKAKGPTWGLSDLKK 261	
Qy	85	KQSNSTACQDLYAWTDGSI--SQFRN-WYVDEP-SCGSEVCVVMYHQPSAPAGIGGPFYMF	140	
Db	262	EAT-----WLWVDGSTLSSRFQKYWNRGEPNNIGEEDCVEF-----AGDG-----	301	
Qy	141	QWNDDRCNMKNPFICKYSDEKPAVP	165	
Db	302	-WNDSKGLKFKFWICK-----KSATP	321	
RESULT 32				
Q8CJ93	ID	Q8CJ93	PRELIMINARY; PRT; 323 AA.	
AC	Q8CJ93;			
DT	01-MAR-2003	(TReMBLrel. 23, Created)		
DT	01-MAR-2003	(TReMBLrel. 23, Last sequence update)		
DT	01-OCT-2003	(TReMBLrel. 25, Last annotation update)		
DE	SIGNR1	alpha (Fragment).		
OS	Mus musculus	(Mouse).		
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.			

OX	NCBI_TaxID=10090;		
RN	[1]		
RP	SEQUENCE FROM N.A.		
RC	STRAIN=Swiss Webster; TISSUE=Spleen;		
RX	MEDLINE=2213304; PubMed=12137941;		
RA	Parent S.A., Zhang T., Chretien G., Clemas J.A., Figueroa D.J., Ky B.,		
RA	Blevins R.A., Austin C.P., Rosen H.,		
RT	"Molecular characterization of the murine SIGNR1 gene encoding a C-		
RT	type lectin homologous to human DC-SIGN and DC-SIGNR.";		
RL	Gene 293:33-46(2002).		
DR	EMBL; AF424791; AAN75586.1; --		
DR	GO; GO:0005529; F:sugar binding; IEA.		
DR	InterPro; IPR002353; AntifreezezeII.		
DR	InterPro; IPR001304; LECTIN_C.		
DR	Pfam; PF00059; lectin C; 1.		
DR	PRINTS; PR00356; ANTIFREEZEII.		
DR	SMART; SM00034; CLECT; 1.		
DR	PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.		
DR	PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.		
FT	NON TER	323	
SQ	SEQUENCE	323 AA; 36908 MW; 5289B6382D9405B6 CRC64;	
Query Match	13.9%;	Score 155; DB 11; Length 323;	
Best Local Similarity	32.4%;	Pred. No. 1.3e-06;	
Matches	47; Conservative	21; Mismatches 43; Indels 34; Gaps 9;	
Qy	25	YFHDTSRRLNFEAKEACRRDGGQLVSIIESEDEQKLEKFIENLLPSDGDGFWIGLRRREE	84
Db	207	YFFSKSR-NWDAVTA	CKEVAQLVIINSDEEQ-----TFLQOTSKAKGPTWGLSDLKK 261
Qy	85	KQSNSTACQDLYAWTDGSI--SQFRN-WYVDEP-SCGSEVCVVMYHQPSAPAGIGGPFYMF	140
Db	262	EAT-----WLWVDGSTLSSRFQKYWNRGEPNNIGEEDCVEF-----AGDG-----	301
Qy	141	QWNDRRCNMKNFICKYSDEKPAVP	165
Db	302	-WNDSKCELKFKFWICK-----KSATP	321
RESULT 33			
Q8CJ88	ID	Q8CJ88	PRELIMINARY; PRT; 323 AA.
AC	Q8CJ88;		
DT	01-MAR-2003	(TReMBLrel. 23, Created)	
DT	01-MAR-2003	(TReMBLrel. 23, Last sequence update)	
DT	01-OCT-2003	(TReMBLrel. 25, Last annotation update)	
DE	SIGNR1	alpha (Fragment).	
OS	Mus musculus	(Mouse).	
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
OC	Mammalia; Euthera; Rodentia; Sciurognathi; Muridae; Murinae; Mus.		
OX	NCBI_TaxID=10090;		
RN	[1]		
RP	SEQUENCE FROM N.A.		
RC	STRAIN=Swiss Webster; TISSUE=Spleen;		
RX	MEDLINE=2213304; PubMed=12137941;		
RA	Parent S.A., Zhang T., Chretien G., Clemas J.A., Figueroa D.J., Ky B.,		
RA	Blevins R.A., Austin C.P., Rosen H.,		
RT	"Molecular characterization of the murine SIGNR1 gene encoding a C-		
RT	type lectin homologous to human DC-SIGN and DC-SIGNR.";		
RL	Gene 293:33-46(2002).		
DR	EMBL; AF424796; AAN75591.1; --		
DR	GO; GO:0005529; F:sugar binding; IEA.		
DR	InterPro; IPR002353; AntifreezezeII.		
DR	InterPro; IPR001304; LECTIN_C.		
DR	Pfam; PF00059; lectin C; 1.		
DR	PRINTS; PR00356; ANTIFREEZEII.		
DR	SMART; SM00034; CLECT; 1.		
DR	PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.		
DR	PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.		
FT	NON TER	323	
SQ	SEQUENCE	323 AA; 36921 MW; 2E807C247CA4B163 CRC64;	
Query Match	13.9%;	Score 155; DB 11; Length 323;	

Best Local Similarity 32.4%; Pred. No. 1.3e-06;
Matches 47; Conservative 21; Mismatches 43; Indels 34; Gaps 9;
QY 25 YFHTSRRRLNFEEAKEACRRDGGQLVSI ESEDEQKLI EKFIENLLPSDGFWMGLRRREE 84
Db 207 YFFSKSR-NMNDVATACKVKAQLVIINSDEQ-----TFLQQTSAKAGPTWGLSDLKK 261
QY 85 KQSNSTACQDLYAWTDGSI--SQFRN-WYVDEP-SCGSEVVMYHQPAPAGIGGYPYMF 140
Db 262 EAT-----WLWVDGSTLSRFFQKYWNRGEPNNIGEDCVEF-----AGDG----- 301
QY 141 QWDDRCNMKNFICKYSDEKPAVP 165
Db 302 -WDSKCELKFKWICK-----KSATP 321

RESULT 34
Q7TMA7
ID Q7TMA7 PRELIMINARY; PRT; 379 AA.
AC Q7TMA7;
DT 01-OCT-2003 (TrEMBLrel. 25, Created)
DT 01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Mannose receptor-like isoform 3 (Mannose receptor-like isoform 5).
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Cerebellum;
RA Jang J.S. Sr., Ackerman S.L.;
RT "Alternatively spliced isoform 3 of mannose receptor precursor-like gene."
RL Submitted (JAN-2003) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Cerebellum;
RA Jang J.S. Sr., Ackerman S.L.;
RT "Alternatively spliced isoform 5 of mannose receptor precursor-like gene."
RL Submitted (JAN-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY223870; AAP22984.1; -.
DR EMBL; AY223872; AAP22986.1; -.
KW Receptor.
SQ SEQUENCE 379 AA; 42164 MW; 98D94076795F85D5 CRC64;

Query Match 13.9%; Score 155; DB 11; Length 379;
Best Local Similarity 27.8%; Pred. No. 1.6e-06;
Matches 47; Conservative 23; Mismatches 59; Indels 40; Gaps 7;
QY 14 GGTQPCYKVIYFHTSRRLN-----FEEAKEACRRDGGQLVSI ESEDEQKLI 61
Db 220 GGAQCATKVGFPFHTCDLRIDGCFMVSP EADTYGAKMKCQGGVLAQIESQKVQDIL 279
QY 62 EKFIENLLP-----SDGD-----FWIGLRRRREKQSNSTACQDLYAWTDGSI SQFRN WYVD 112
Db 280 APYLGRLTNEVTDSDFETKNFWIGLTYK-----AAKDSFRWTTGEGHQSFTSFAG 331
QY 113 EP-SCGSEVVMYHQPAPAGIGGYPYMFQWDDRCNMKNFICKYSDE 160
Db 332 QPDNQGFNGNCVEM--QASA-----AFNWDQRCCKTRNRYICQFAQK 370

RESULT 35
Q7TSP9
ID Q7TSP9 PRELIMINARY; PRT; 473 AA.
AC Q7TSP9;
DT 01-OCT-2003 (TrEMBLrel. 25, Created)
DT 01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Mannose receptor-like isoform 6.

OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Cerebellum;
RA Jang J.S. Sr., Ackerman S.L.;
RT "Alternatively spliced isoform 6 of mannose receptor precursor-like gene."
RL Submitted (JAN-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY223873; AAP22987.1; -.
KW Receptor.
SQ SEQUENCE 473 AA; 52563 MW; 707C43A6B3C2E206 CRC64;

Query Match 13.9%; Score 155; DB 11; Length 473;
Best Local Similarity 27.8%; Pred. No. 2e-06;
Matches 47; Conservative 23; Mismatches 59; Indels 40; Gaps 7;
QY 14 GGTQPCYKVIYFHTSRRLN-----FEEAKEACRRDGGQLVSI ESEDEQKLI 61
Db 314 GGAQCATKVGFPFHTCDLRIDGCFMVSP EADTYGAKMKCQGGVLAQIESQKVQDIL 373
QY 62 EKFIENLLP-----SDGD-----FWIGLRRRREKQSNSTACQDLYAWTDGSI SQFRN WYVD 112
Db 374 APYLGRLTNEVTDSDFETKNFWIGLTYK-----AAKDSFRWTTGEGHQSFTSFAG 425
QY 113 EP-SCGSEVVMYHQPAPAGIGGYPYMFQWDDRCNMKNFICKYSDE 160
Db 426 QPDNQGFNGNCVEM--QASA-----AFNWDQRCCKTRNRYICQFAQK 464

RESULT 36
Q7TSQ7
ID Q7TSQ7 PRELIMINARY; PRT; 477 AA.
AC Q7TSQ7;
DT 01-OCT-2003 (TrEMBLrel. 25, Created)
DT 01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Mannose receptor-like.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Cerebellum;
RA Jang J.S., Ackerman S.L.;
RT "CDNA sequence of a mannose receptor precursor-like gene."
RL Submitted (JAN-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY223868; AAP20650.1; -.
KW Receptor.
SQ SEQUENCE 477 AA; 52490 MW; E24C5071B4137148 CRC64;

Query Match 13.9%; Score 155; DB 11; Length 477;
Best Local Similarity 27.8%; Pred. No. 2.1e-06;
Matches 47; Conservative 23; Mismatches 59; Indels 40; Gaps 7;
QY 14 GGTQPCYKVIYFHTSRRLN-----FEEAKEACRRDGGQLVSI ESEDEQKLI 61
Db 318 GGAQCATKVGFPFHTCDLRIDGCFMVSP EADTYGAKMKCQGGVLAQIESQKVQDIL 377
QY 62 EKFIENLLP-----SDGD-----FWIGLRRRREKQSNSTACQDLYAWTDGSI SQFRN WYVD 112
Db 378 APYLGRLTNEVTDSDFETKNFWIGLTYK-----AAKDSFRWTTGEGHQSFTSFAG 429
QY 113 EP-SCGSEVVMYHQPAPAGIGGYPYMFQWDDRCNMKNFICKYSDE 160
Db 430 QPDNQGFNGNCVEM--QASA-----AFNWDQRCCKTRNRYICQFAQK 468

RESULT 37
Q7TSQO

ID Q7TSQ0 PRELIMINARY; PRT; 504 AA.
AC Q7TSQ0;
DT 01-OCT-2003 (TrEMBLrel. 25, Created)
DT 01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Mannose receptor-like isoform 4.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Cerebellum;
RA Jang J.S. Sr., Ackerman S.L.;
RT "Alternatively spliced isoform 4 of mannose receptor precursor-like gene."
RL Submitted (JAN-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY223871; AAP22985.1; -.
KW Receptor.
SQ SEQUENCE 504 AA; 55995 MW; A964C0C319D77B8C CRC64;

Query Match 13.9%; Score 155; DB 11; Length 504;
Best Local Similarity 27.8%; Pred. No. 2.2e-06;
Matches 47; Conservative 23; Mismatches 59; Indels 40; Gaps 7;

QY 14 GGTQPCVKVIYFHDTSRLN-----FEEAKEACRRDGGQLVSI ESEDEQKLI 61
Db 345 GGAQCATKVGFPFHTCDLRIDGCFMVSP EADTYYGAKMKCGKGVLAQIESQKVQDIL 404
QY 62 EKFIENLLP-----SDGD-----FWIGLRRREEKQSNSTACQDLYAWTDGSGISQFRNWWYVD 112
Db 405 AFYLGRLTTEVTDSDFTKTFWIGLTYK-----AAKDSFRWTTGEHQSF TSFAG 456
QY 113 EP-SCGSEVCMVYHQPAPAGIGGPPYMFQWNDRCNMKNFICKYSDE 160
Db 457 QPDNQGFNGCVMEM--QASA-----AFNWNQDQCKTRNRYICQFAQK 495

RESULT 38
Q7TSQ1 PRELIMINARY; PRT; 534 AA.
AC Q7TSQ1;
DT 01-OCT-2003 (TrEMBLrel. 25, Created)
DT 01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Mannose receptor-like isoform 2.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Cerebellum;
RA Jang J.S. Sr., Ackerman S.L.;
RT "Alternatively spliced isoform 2 of mannose receptor precursor-like."
RL Submitted (JAN-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY223869; AAP22983.1; -.
KW Receptor.
SQ SEQUENCE 534 AA; 58585 MW; 9B0AF013370793FF CRC64;

Query Match 13.9%; Score 155; DB 11; Length 534;
Best Local Similarity 27.8%; Pred. No. 2.4e-06;
Matches 47; Conservative 23; Mismatches 59; Indels 40; Gaps 7;

QY 14 GGTQPCVKVIYFHDTSRLN-----FEEAKEACRRDGGQLVSI ESEDEQKLI 61
Db 375 GGAQCATKVGFPFHTCDLRIDGCFMVSP EADTYYGAKMKCGKGVLAQIESQKVQDIL 434
QY 62 EKFIENLLP-----SDGD-----FWIGLRRREEKQSNSTACQDLYAWTDGSGISQFRNWWYVD 112
Db 435 AFYLGRLTTEVTDSDFTKTFWIGLTYK-----AAKDSFRWTTGEHQSF TSFAG 486
QY 113 EP-SCGSEVCMVYHQPAPAGIGGPPYMFQWNDRCNMKNFICKYSDE 160

Db 487 QPDNQGFNGCVMEM--QASA-----AFNWNQDQCKTRNRYICQFAQK 525

RESULT 39
Q90WM2 PRELIMINARY; PRT; 1152 AA.
AC Q90WM2;
DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Brevican soluble core protein.
OS Xenopus laevis (African clawed frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidae; Pipidae;
OC Xenopodinae; Xenopus.
OX NCBI_TaxID=8355;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=21184128; PubMed=11287204;
RA Sander V., Mullegger J., Lepperdinger G.;
RT "Xenopus brevican is expressed in the notochord and the brain during early embryogenesis."
RL Mech. Dev. 102:251-253(2001).
DR EMBL; AF325324; AAK40085.1; -.
DR GO; GO:0005540; F:hyaluronic acid binding; IEA.
DR GO; GO:0005529; F:sugar binding; IEA.
DR GO; GO:0007155; P:cell adhesion; IEA.
DR InterPro; IPR002353; AntifreezeII.
DR InterPro; IPR000742; EGF_2.
DR InterPro; IPR006209; EGF_like.
DR InterPro; IPR006210; IEGF.
DR InterPro; IPR003599; Ig.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003006; Ig_MHC.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR000538; Link.
DR InterPro; IPR000436; Sushi_SCR_CCP.
DR Pfam; PF00008; EGF_1.
DR Pfam; PF00059; lectin_C; 1.
DR Pfam; PF00084; sushi; 1.
DR Pfam; PF00193; Xlink; 2.
DR PRINTS; PR00356; ANTIFREEZEII.
DR PRINTS; PR01265; LINKMODULE.
DR ProDom; PD000918; Link; 2.
DR SMART; SM00032; CCP; 1.
DR SMART; SM00034; CLECT; 1.
DR SMART; SM00181; EGF; 1.
DR SMART; SM00409; IG; 1.
DR SMART; SM00445; LINK; 2.
DR PROSITE; PS00615; C_TYPE_LECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LECTIN_2; 1.
DR PROSITE; PS00022; EGF_1; 1.
DR PROSITE; PS01186; EGF_2; 1.
DR PROSITE; PS50835; IG_LIKE; 1.
DR PROSITE; PS00290; IG_MHC; 1.
DR PROSITE; PS01241; LINK; 2.
KW EGF-like domain.
SQ SEQUENCE 1152 AA; 126860 MW; 196947BD8F9B216D CRC64;

Query Match 13.9%; Score 155; DB 13; Length 1152;
Best Local Similarity 30.6%; Pred. No. 5.9e-06;
Matches 49; Conservative 17; Mismatches 56; Indels 38; Gaps 9;

QY 20 CYKVIYFHDTSRLNFE EAKEACRRDGGQLVSI ESEDEQKLI EKFIEFLPSDGF-WIG 78
Db 973 CYK--HFH---ARRSWEEAEAF CREAGGHLTSINTPEEQ-----AFLSN---KYNDYQWTG 1020
QY 79 LRRREEKQSNSTACQDLYAWTDGSGISQFRNWWYDEPS---CGSEVCMVYHQPAPAGIG 135
Db 1021 L-----NDRTIEGDFQWSDGNPLLFENWAHQPDSDSYFLSGENCVMV----- 1062
QY 136 GPYMFQWNDRCNMKNFICKYS---DEK?AVPSREAEG 171

Db 1063 GENEKWSVPCNYHLFPVCKMGLVSCGPPDPVNPATMYG 1102

RESULT 40
Q8CJ89
ID Q8CJ89 PRELIMINARY; PRT; 322 AA.
AC Q8CJ89;
DT 01-MAR-2003 (TReMBLrel. 23, Created)
DT 01-MAR-2003 (TReMBLrel. 23, Last sequence update)
DT 01-OCT-2003 (TReMBLrel. 25, Last annotation update)
DE SIGNR1 alpha (Fragment).
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Swiss Webster; TISSUE=Skin;
RX MEDLINE=2213304; PubMed=12137941;
RA Parent S.A., Zhang T., Chretien G., Clemas J.A., Figueroa D.J., Ky B.,
RA Blevins R.A., Austin C.P., Rosen H.;
RT "Molecular characterization of the murine SIGNR1 gene encoding a C-
type lectin homologous to human DC-SIGN and DC-SIGNR.";
RL Gene 293:33-46(2002).
DR EMBL; AF424792; AAN75590.1; --
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR002353; AntifreezeII.
DR InterPro; IPR001304; LECTIN_C.
DR Pfam; PF00059; lectin_c; 1.
DR PRINTS; PR00356; ANTIFREEZEII.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
FT NON TER 322
SQ SEQUENCE 322 AA; 36832 MW; E30AA47CA4B16362 CRC64;

Query Match 13.8%; Score 154; DB 11; Length 322;
Best Local Similarity 32.6%; Pred. No. 1.6e-06;
Matches 45; Conservative 21; Mismatches 42; Indels 30; Gaps 8;
QY 25 YFHDTSRRRLNFEEAKEACRRDGGQLVSIIESEDEQKLEKFIENLLPSDGFWIGLRRREE 84
Db 207 YFFSKSQR-NWDAVTAACKVKAQLVIINSEDEQ-----TFLQQTSAKAGPTWGLSLDKK 261
QY 85 KQSNSTACQDLAYWTDGSI--SQFRN-WYVDEP-SCGSEVCVVMYHQPAPAGIGGPPYMF 140
Db 262 EAT-----WLWVDGSLSSRFQKYWNRGEPNNGEEDCVEF-----AGDG----- 301
QY 141 QWDDRCNMKNFICKYS 158
Db 302 -WNSKCEKFKFWICKS 318

RESULT 41
Q8CJ92
ID Q8CJ92 PRELIMINARY; PRT; 323 AA.
AC Q8CJ92;
DT 01-MAR-2003 (TReMBLrel. 23, Created)
DT 01-MAR-2003 (TReMBLrel. 23, Last sequence update)
DT 01-OCT-2003 (TReMBLrel. 25, Last annotation update)
DE SIGNR1 alpha (Fragment).
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Swiss Webster; TISSUE=Spleen;
RX MEDLINE=2213304; PubMed=12137941;
RA Parent S.A., Zhang T., Chretien G., Clemas J.A., Figueroa D.J., Ky B.,
RA Blevins R.A., Austin C.P., Rosen H.;
RT "Molecular characterization of the murine SIGNR1 gene encoding a C-

RT type lectin homologous to human DC-SIGN and DC-SIGNR.";
RL Gene 293:33-46(2002).
DR EMBL; AF424792; AAN75587.1; --
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR002353; AntifreezeII.
DR InterPro; IPR001304; LECTIN_C.
DR Pfam; PF00059; lectin_c; 1.
DR PRINTS; PR00356; ANTIFREEZEII.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
FT NON TER 323
SQ SEQUENCE 323 AA; 36879 MW; 2B2A9979E5AD34AB CRC64;

Query Match 13.8%; Score 154; DB 11; Length 323;
Best Local Similarity 31.7%; Pred. No. 1.6e-06;
Matches 46; Conservative 22; Mismatches 43; Indels 34; Gaps 9;
QY 25 YFHDTSRRRLNFEEAKEACRRDGGQLVSIIESEDEQKLEKFIENLLPSDGFWIGLRRREE 84
Db 207 YFFSKSQR-NWDAVTAACKVKAQLVTINGDEEQ-----TFLQQTSAKAGPTWGLSLDKK 261
QY 85 KQSNSTACQDLAYWTDGSI--SQFRN-WYVDEP-SCGSEVCVVMYHQPAPAGIGGPPYMF 140
Db 262 EAT-----WLWVDGSLSSRFQKYWNRGEPNNGEEDCVEF-----AGDG----- 301
QY 141 QWDDRCNMKNFICKYSDEKPAVP 165
Db 302 -WNSKCEKFKFWICK----KSATP 321

RESULT 42
Q7Z5K9
ID Q7Z5K9 PRELIMINARY; PRT; 446 AA.
AC Q7Z5K9;
DT 01-OCT-2003 (TReMBLrel. 25, Created)
DT 01-OCT-2003 (TReMBLrel. 25, Last sequence update)
DT 01-OCT-2003 (TReMBLrel. 25, Last annotation update)
DE Unnamed secretory protein.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Ding P., Han W., Rui M., Wang Y., Zhang Y., Song Q., Ma D.;
RL Submitted (JUN-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF521893; AAP80866.1; --
SQ SEQUENCE 446 AA; 49574 MW; EF34732BF9ECD0C1 CRC64;

Query Match 13.7%; Score 153; DB 4; Length 446;
Best Local Similarity 26.9%; Pred. No. 2.9e-06;
Matches 46; Conservative 27; Mismatches 54; Indels 44; Gaps 9;
QY 14 GGTQRPCKVIY--FHDTSRRRLN-----FEEAKEACRRDGGQLVSIIESEDEQ 59
Db 287 GGAQ--CATKVHFPFHTCDLRIDGCFMVSSSEADTYRARMKCQRKGVLAQIKSQKVD 344
QY 60 LIEKFIENL-----LPD-----GDFWIGLRRREKQSNSTACQDLAYWTDGSIQFRN 110
Db 345 ILAFYLGRLLETTNEVIDSDFTETNFWIGLTYKTAK-----DSFRWATGEHQAF 396
QY 111 VDEP-SCGSEVCVVMYHQPAPAGIGGPPYMFOWNDDRCNMKNFICKYSDE 160
Db 397 FGQPDNHGFGNCVEL--QASA-----AFNWDQRCRKNRYICQPAQE 437

RESULT 43
Q95LG3
ID Q95LG3 PRELIMINARY; PRT; 485 AA.
AC Q95LG3;
DT 01-DEC-2001 (TReMBLrel. 19, Created)
DT 01-DEC-2001 (TReMBLrel. 19, Last sequence update)

DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE E-selectin.
OS Odocoileus hemionus (Mule deer) (Black-tailed deer).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Cervidae;
OC Cervidae; Odocoileinae; Odocoileus.
OX NCBI_TaxID=9872;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=21421234; PubMed=11529941;
RA Hedges J.F., Demaula C.D., Moore B.D., McLaughlin B.E., Simon S.I.,
RA MacLachlan N.J.;
RT "Characterization of equine E-selectin."
RL Immunology 103:498-504(2001).
DR EMBL; AF307970; AAK48710.1; -.
DR GO; GO:0016020; C:membrane; IEA.
DR GO; GO:0005194; F:cell adhesion molecule activity; IEA.
DR GO; GO:0005529; F:sugar binding; IEA.
DR GO; GO:0007155; P:cell adhesion; IEA.
DR GO; GO:0006952; P:defense response; IEA.
DR GO; GO:0007157; P:heterophilic cell adhesion; IEA.
DR InterPro; IPR000742; EGF_2.
DR InterPro; IPR006209; EGF_like.
DR InterPro; IPR006210; IEGF.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR002396; Selectin.
DR InterPro; IPR000436; Sushi_SCR_CCP.
DR Pfam; PF00008; EGF; 1.
DR Pfam; PF00059; lectin_c; 1.
DR Pfam; PF00084; sushi; 4.
DR PRINTS; PR00343; SELECTIN.
DR SMART; SM00032; CCP; 4.
DR SMART; SM00034; CLECT; 1.
DR SMART; SM00181; EGF; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
DR PROSITE; PS00022; EGF_1; 1.
DR PROSITE; PS01186; EGF_2; 1.
KW EGF-like domain; Lectin; Selectin.
SQ SEQUENCE 485 AA; 53247 MW; 69959199EAFE9980 CRC64;

Query Match 13.7%; Score 152.5; DB 6; Length 485;
Best Local Similarity 26.0%; Pred.No.3.6e-06;
Matches 40; Conservative 32; Mismatches 57; Indels 25; Gaps 6;

QY 26 FHDSRLNPFEEAKEACRRDGGQLVSISEDEQKLIKFIENLLPSDGDGFWIGLRREK 85
DB 25 YHASKENMTFEEARDYCKTYTALVAIQNEEIKYLNSTFSH---SPSYWIGIRK---- 77

QY 86 QSNSTACDLYAW--TDGSIS-QFRNWWYVDEPS--CGSEVCVVMYHQPSAPAGIGPYMF 140
DB 78 -----INDIWTWIGTNKSLTKEATNWPAGPNKQSDDECVIYIKREKDSG----- 124

QY 141 QWNDDRCNMKNFICKYSDEKPAVPSRHAEGEET 174
DB 125 KWNDECTKRLALCYKAACPTTPCSSHGECVET 158

RESULT 44
Q90WI6 PRELIMINARY; PRT; 158 AA.
AC Q90WI6;
DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE C-type lectin-like protein 1.
OS Bungarus multicinctus (Many-banded krait).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Lepidosauria; Squamata; Scleroglossa; Serpentes; Colubroidea;
OC Elapidae; Bungarinae; Bungarus.
OX NCBI_TaxID=8616;
RN [1]
RP SEQUENCE FROM N.A.

RC TISSUE=Venom gland;
RA Zha H.-G., Zhang Y.;
RT "cDNA cloning and characterization of C-type lectin-like proteins from
RT Elapidae snakes.";
RL Submitted (FEB-2001) to the EMBL/GenBank/DBSJ databases.
DR EMBL; AF354272; AAK43586.1; -.
DR GO; GO:0005529; F:sugar binding; IEA.
DR GO; GO:0007157; P:heterophilic cell adhesion; IEA.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR003990; Pancreatins_ac.
DR Pfam; PF00059; lectin_c; 1.
DR PRINTS; PR01504; PNCREATITSAP.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
KW Lectin.
SQ SEQUENCE 158 AA; 18706 MW; 66B71A29D1048805 CRC64;

Query Match 13.6%; Score 152; DB 13; Length 158;
Best Local Similarity 28.4%; Pred.No.1.1e-06;
Matches 40; Conservative 22; Mismatches 53; Indels 26; Gaps 5;

QY 20 CYKVIYFHDTSRLNPFEEAKEACR--RDGGQLVSISEDEQKLIKFIENLLPSDGDGFWI 77
DB 37 CYKVFVKHKT-----WFDAEKYCRKFKPGCHLASLNADAVEFSEYISDYLTGRGHVWI 91

QY 78 GLRRREEKQSNSTACQDLYAWTDGSIQSFRNWWYVDEPS--CGSEVCVVMYHQPSAPAGIG 135
DB 92 GLRDTKKY-----IWEWTDRTDRLPWRKNQPDHFNNEFCVEI-----VN 134

QY 136 GPYMFQWDDRCNMKNFICK 156
DB 135 FTGYLQWDDNCAALRPFLCQ 155

RESULT 45
Q8IXK1 PRELIMINARY; PRT; 652 AA.
AC Q8IXK1;
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Clg receptor protein precursor.
GN CD93.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Steinberger P., Stoeckl J., Wille S., Szekeres A., Prager E.,
RA Staffler G., Kuenig S., Kohl P., Majdic O., Knapp W., Stockinger H.;
RT "Identification of CD93 as the Clg receptor protein (ClgRp) by
RT retroviral expression cloning."
RL Submitted (OCT-2000) to the EMBL/GenBank/DBSJ databases.
DR EMBL; AJ295142; CAC82720.1; -.
DR GO; GO:0016021; C:integral to membrane; IEA.
DR GO; GO:0005509; F:calcium ion binding; IEA.
DR GO; GO:0004872; F:receptor activity; IEA.
DR GO; GO:0005529; F:sugar binding; IEA.
DR GO; GO:0007596; P:blood coagulation; IEA.
DR InterPro; IPR000152; Asx_hydroxyl_S.
DR InterPro; IPR001881; EGF_Ca.
DR InterPro; IPR006209; EGF_like.
DR InterPro; IPR006210; IEGF.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR001187; Tissue_factor.
DR Pfam; PF00008; EGF; 5.
DR Pfam; PF00059; lectin_c; 1.
DR Pfam; PF01108; Tissue_fac; 1.
DR SMART; SM00034; CLECT; 1.
DR SMART; SM00181; EGF; 5.
DR SMART; SM00179; EGF_CA; 5.

DR PROSITE; PS00010; ASX HYDROXYL; 3.
DR PROSITE; PS00041; C_TYPE LECTIN_2; 1.
DR PROSITE; PS01186; EGF_2; 3.
DR PROSITE; PS01187; EGF_CA; 3.
KW Signal; Receptor.
FT SIGNAL 1 21 POTENTIAL.
FT CHAIN 22 652 C1Q RECEPTOR PROTEIN.
SQ SEQUENCE 652 AA; 68521 MW; 97549BA62CAF225E CRC64;

Query Match 13.6%; Score 151.5; DB 4; Length 652;
Best Local Similarity 24.4%; Pred. No. 6.5e-06;
Matches 50; Conservative 38; Mismatches 74; Indels 43; Gaps 9;

QY 5 LLSGDP-----VCRGTQPCYKVIYFHDTSRLNFEEAKEACRRDGGQLVSIE 53
Db 13 LLLTPCAGTGADTEAVVCG--TACYTA-----HSGKLSAAEAQNHCNQGGLATVK 64
QY 54 SEDEQKLIKFIENLLPSD-----GDFWIGLRRREKQSNSTACQDLYAWT-DGSISQ 105
Db 65 SKEEAHVQVLAQLLRREALTARMSKFWIGLQREKGLDPSLPKGFVWGGEDTP 124
QY 106 FRWYVD-EPSCGSEVCVVM---YHQPAPAGIGGPFYMFQWDDRCNMKN-----FI 154
Db 125 YSNWHKELRNSCISKRCVSLLDLSQPLPSRLP-----KWSEGPCGSPGSGNIEGFV 179
QY 155 CKYSDEKPAVPSREAEGETELTTP 179
Db 180 CKFSFKGMCRLALGGPGQVYTTTP 204

RESULT 46
Q8HY12 PRELIMINARY; PRT; 399 AA.
AC Q8HY12;
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Putative CD209L1 protein.
GN CD209L1.
OS Hylobates lar (Common gibbon).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hylobatidae; Hylobates.
OX NCBI_TaxID=9580;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=B23;
RX PubMed=12477827;
RA Bashirova A.A., Wu L., Cheng J., Martin T.D., Martin M.P.,
RA Benveniste R.A., Lifson J.D., KewalRamani V.N., Hughes A.,
RA Carrington M.;
RT "Novel Member of the CD209 (DC-SIGN) Gene Family in Primates.";
RL J. Virol. 77:217-227(2003).
DR EMBL; AY078813; AAL89528.1; -.
DR EMBL; AY078807; AAL89528.1; JOINED.
DR EMBL; AY078808; AAL89528.1; JOINED.
DR EMBL; AY078809; AAL89528.1; JOINED.
DR EMBL; AY078810; AAL89528.1; JOINED.
DR EMBL; AY078811; AAL89528.1; JOINED.
DR EMBL; AY078812; AAL89528.1; JOINED.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR002353; AntifreezeII.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; lectin_c; 1.
DR PRINTS; PR00356; ANTIFREEZEII.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE LECTIN_1; 1.
DR PROSITE; PS00041; C_TYPE LECTIN_2; 1.
SQ SEQUENCE 399 AA; 45404 MW; DEC669244205B27A CRC64;

Query Match 13.5%; Score 150.5; DB 6; Length 399;
Best Local Similarity 32.4%; Pred. No. 4.5e-06;
Matches 48; Conservative 19; Mismatches 48; Indels 33; Gaps 9;

QY 25 YEHDTSRRLNFEEAKEACRRDGGQLVSIESEDEQKLIKFIENLLPSDGDWIGLRRREE 84
Db 280 YFINSQR-NWHDSTACREVGAGLVVKSAAEQNFIQLQSSR---SNRFAMWGLSDLNQ 335
QY 85 QKSNSTACQDLYAWTDGS--ISQF-RNWYVDEP-SCGSEVCVVMYHQPSAPAGIGGPFYMF 140
Db 336 -----EGTWQWVDGSPSSSFQRYWNSGEPNNSGDEDCAEF-----SGSG----- 375
QY 141 QWNDDRCNMKNFICKYSDEKPAVPSRE 168
Db 376 -WNDNRCNVNDYWICK-----KPTACFRD 398

RESULT 47
Q28008 PRELIMINARY; PRT; 197 AA.
ID Q28008
AC Q28008;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE C-type lectin homolog precursor.
OS Bos taurus (Bovine).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidea;
OC Bovidae; Bovinae; Bos.
OX NCBI_TaxID=9913;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Cartilage;
RA Neame P.J., Boynton R.E.;
RT "C-type lectin homolog from bovine cartilage.";
RL Submitted (APR-1998) to the EMBL/GenBank/DBJ databases.
DR EMBL; U22298; AAC18614.1; -.
DR HSSP; P05452; 1TN3.
DR GO; GO:0005529; F:sugar binding; IEA.
DR GO; GO:0007157; P:heterophilic cell adhesion; IEA.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; lectin_c; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE LECTIN_1; 1.
DR PROSITE; PS00041; C_TYPE LECTIN_2; 1.
KW Lectin; Signal.
FT SIGNAL 1 24 POTENTIAL.
FT CHAIN 25 197 C-TYPE LECTIN HOMOLOG.
SQ SEQUENCE 197 AA; 22215 MW; AAAC4280F41AC0F4 CRC64;

Query Match 13.5%; Score 150; DB 6; Length 197;
Best Local Similarity 25.0%; Pred. No. 2.1e-06;
Matches 38; Conservative 24; Mismatches 56; Indels 24; Gaps 4;

QY 9 QPVCRRGGTQ--RPGYKVIYFHDTSRLNFEEAKEACRRDGGQLVSIESEDEQKLIKFI 66
Db 65 QTVCLRGTKFKKCYLA-----AEGLKHFHEANEDCISKGGTLVVPRADEINALRDYGK 119
QY 67 NLLPSDGDWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWYVDEPSCGSEVCVVMYH 126
Db 120 RSLPGVNDFWLGI-----NDMVAEGKFVDINGLAISFLNWDQAQPNGKRENCALFS 171
QY 127 QPSAPAGIGGPFYMFQWDDRCNMKNFICKYS 158
Db 172 QSA-----QGKWSDEACHSKRYICEFT 194

RESULT 48
Q8JZX6 PRELIMINARY; PRT; 158 AA.
ID Q8JZX6
AC Q8JZX6;
DT 01-OCT-2002 (TrEMBLrel. 22, Created)
DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE RIKEN cDNA 3110037K17 gene.
GN 3110037K17RIK.
OS Mus musculus (Mouse).

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OM protein - protein search, using sw model

Run on: September 9, 2004, 22:31:58 ; Search time 40 Seconds
(without alignments)
495.386 Million cell updates/sec

Title: US-09-887-855-2_COPY_22_227
Perfect score: 1115
Sequence: 1 ATGRLLSGQPVCRGGTORPC.....EEDAKKTFKESREAAALNLAY 206

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283366 seqs, 96191526 residues

Total number of hits satisfying chosen parameters: 283366

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 50 summaries

Database : PIR 78:*

1: Pirl:*

2: Pirl2:*

3: Pirl3:*

4: Pirl4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	182	16.3	1456	1 A36563	mannose receptor p
2	178.5	16.0	1455	1 A48925	mannose receptor p
3	177	15.9	1268	2 S52781	neurocan - mouse
4	174.5	15.7	1643	2 T14274	versican precursor
5	174.5	15.7	3381	2 T42389	versican precursor
6	174	15.6	1257	2 S28764	neurocan precursor
7	174	15.6	2397	1 A55535	versican precursor
8	174	15.6	2409	1 A60979	versican precursor
9	171	15.3	3562	2 A47171	chondroitin sulfat
10	170.5	15.3	1479	2 T42710	mannose receptor,
11	158.5	14.2	1340	2 A39808	proteoglycan core
12	158.5	14.2	2327	2 T42630	aggrecan - bovine
13	158.5	14.2	2415	1 A39086	aggrecan precursor
14	154.5	13.9	612	2 B42755	E-selectin precurs
15	153.5	13.8	2124	2 A28452	proteoglycan core
16	152	13.6	912	2 A54423	brevican precursor
17	149.5	13.4	459	2 T24425	hypothetical prote
18	149	13.4	321	1 LNHUER	IgE Fc receptor II
19	148.5	13.3	330	2 T46256	brevican - human (
20	148.5	13.3	2132	1 A55182	aggrecan precursor
21	148	13.3	253	2 E89130	protein F52E1.2 [i
22	147	13.2	883	2 S57653	brevican precursor
23	146.5	13.1	162	1 LNRCl	lectin BRA3-1 prec
24	146	13.1	2109	1 I50421	aggrecan precursor
25	145.5	13.0	742	2 JC7595	scavenger receptor
26	145	13.0	883	2 S49126	brevican precursor
27	144.5	13.0	173	2 S10548	lectin - barnacle
28	144.5	13.0	372	2 S23936	L-selectin precurs
29	144.5	13.0	404	2 A46274	HIV gp120-binding

30	143.5	12.9	129	2 JC4329	coagulation factor
31	143.5	12.9	372	1 A32375	L-selectin precurs
32	143.5	12.9	463	2 T26655	hypothetical prote
33	142.5	12.8	131	2 JC5058	bitiscetin alpha c
34	142	12.7	1487	2 S48719	phospholipase-A(2)
35	141.5	12.7	331	1 LNMSE	IgE Fc receptor, l
36	140.5	12.6	162	1 LNRCl	lectin BRA3-2 prec
37	140	12.6	370	2 S22124	L-selectin precurs
38	139	12.5	248	1 LNHUPS	pulmonary surfacta
39	139	12.5	248	1 LNHUP6	pulmonary surfacta
40	139	12.5	248	1 LNHUP1	pulmonary surfacta
41	139	12.5	283	1 LNFHLS	lectin precursor -
42	138.5	12.4	152	2 JC4690	coagulation factor
43	138.5	12.4	202	2 JC4031	tetranectin precur
44	138	12.4	280	2 T29200	hypothetical prote
45	137.5	12.3	309	1 S34198	IgE Fc receptor II
46	137.5	12.3	372	2 JC5377	L-selectin precurs
47	137.5	12.3	376	2 JC4892	L-selectin precurs
48	137	12.3	248	2 I51921	pulmonary surfacta
49	136.5	12.2	308	2 T29754	hypothetical prote
50	136	12.2	175	2 A37194	pancreatic thread

ALIGNMENTS

RESULT 1

A36563

mannose receptor precursor - human

C;Species: Hmo sapiens (man)

C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text change 10-Sep-1999

C;Accession: A36563; A60926; A44255; B44255; C44255; D44255; E44255; F44255; G44255; H44

R;Taylor, M.E.; Conary, J.T.; Lennartz, M.R.; Stahl, P.D.; Drickamer, K.

J. Biol. Chem. 265, 12156-12162, 1990

A;Title: Primary structure of the mannose receptor contains multiple motifs resembling c

A;Reference number: A36563; MUID:90324192; PMID:2373685

A;Accession: A36563

A;Molecule type: mRNA

A;Residues: 1-1456 <TAY>

A;Cross-references: GB:J05550; NID:gl88675; PIDN:AAA59868.1; PID:gl88676

A;Note: parts of this sequence, including the amino end of the mature protein, were conf

R;Ezekowitz, R.A.B.; Sastry, K.; Bailly, P.; Warner, A.

J. Exp. Med. 172, 1785-1794, 1990

A;Title: Molecular characterization of the human macrophage mannose receptor: demonstrat

A;Reference number: A60926; MUID:91079783; PMID:2258707

A;Accession: A60926

A;Status: nucleic acid sequence not shown

A;Molecule type: mRNA

A;Residues: 1-1333,'T',1335-1456 <EZE>

A;Cross-references: GB:X55635

A;Note: translation of the nucleotide sequence is incomplete

A;Note: in the authors' translation additional residues Pro-Glu-Ile are shown after 497-

R;Kim, S.J.; Ruiz, N.; Bezouska, K.; Drickamer, K.

Genomics 14, 721-727, 1992

A;Title: Organization of the gene encoding the human macrophage mannose receptor (MRC1).

A;Reference number: A44255; MUID:93052405; PMID:1294118

A;Accession: A44255

A;Status: preliminary; nucleic acid sequence not shown; not compared with conceptual tra

A;Molecule type: DNA

A;Residues: 155-233,'KSAL',238-283;346-428;492-569;631-714,716-719;783-820,'N',822-865;'

A;Note: sequence extracted from NCBI backbone (NCBIP:118415, NCBIP:118421, NCBIP:118428,

C;Genetics:

A;Gene: GDB:MRC1

A;Cross-references: GDB:133759; OMIM:153618

A;Map position: 10p13-10p13

C;Superfamily: phospholipase A2 receptor; C-type lectin homology; fibronectin type II re

C;Keywords: duplication; lectin; tandem repeat; transmembrane protein

F;1-18/Domain: signal sequence #status predicted <SIG>

F;168-209/Domain: fibronectin type II repeat homology <2F1>

F;223-340/Domain: C-type lectin homology <LCH1>

F;362-486/Domain: C-type lectin homology <LCH2>

F;945-1079/Domain: C-type lectin homology <LCH3>

Matches 59; Conservative 26; Mismatches 71; Indels 75; Gaps 11;
QY 17 QRPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSIIESEDEQKLIKFIENLLPSDGDGF- 75
Db 1424 QGQCYK--YF---AHRRTWDAARECRQLQGAHLTSILSHEEQMFVNRV-----GHDYQ 1471
QY 76 WIGLRREEKQSNSTACQDLVYAWTDGSIQFRNMYVDEP-----SCGSEVCVVMYHQPSAP 131
Db 1472 WIGL-----NDKMFHDFRWDGSLQYENWRPNQDPSFFSTGEDCVVVIWHENG-- 1521
QY 132 AGIGGPFYMFQWDDRCNMKNFICKYS-----DEKPAVPSREAAGE----- 172
Db 1522 -----QWNDVPCNYHLTYTCKKGTACGQPPVVENAKTFGKMKPRYEINSLIRYHC 1572
QY 173 -----ETELTT-----PVL-----PEETQEEADAKTFKESREAAALN 203
Db 1573 KDGFIQRLHPTIRCLNGRWAMPKITCLNPSAYQRTYSKKYFKNSSSAKDN 1623
RESULT 5
T42389
versican precursor, splice form V0 - bovine
N;Alternate names: chondroitin sulfate proteoglycan
C;Species: Bos primigenius taurus (cattle)
C;Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 05-May-2000
C;Accession: T42389
R;Schmalfeldt, M.; Dours-Zimmermann, M.T.; Winterhalter, K.H.; Zimmermann, D.R.
J. Biol. Chem. 273, 15758-15764, 1998
A;Title: Versican V2 is a major extracellular matrix component of the mature bovine brain
A;Reference number: Z17954; MUID:98288320; PMID:9624174
A;Accession: T42389
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
A;Residues: 1-3381 <SCH>
A;Cross-references: EMBL:AF060456; NID:g32533299; PID:g32533300; PIDN:AAC24358.1
C;Superfamily: chicken chondroitin sulfate proteoglycan PG-M core protein; C-type lectin
C;Keywords: chondroitin sulfate proteoglycan; extracellular matrix; glycoprotein
F;1-20/Domain: signal sequence #status predicted <SIG>
F;21-3381/Product: versican, splice form V0 #status predicted <MAT>
F;57,331,352,817,965,1017,1333,1393,1437,1463,1653,1974,2045,2074,2103,2263,2290,2356,26

Query Match 15.7%; Score 174.5; DB 2; Length 3381;
Best Local Similarity 25.5%; Pred. No. 1.1e-06;
Matches 59; Conservative 26; Mismatches 71; Indels 75; Gaps 11;
QY 17 QRPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSIIESEDEQKLIKFIENLLPSDGDGF- 75
Db 3162 QGQCYK--YF---AHRRTWDAARECRQLQGAHLTSILSHEEQMFVNRV-----GHDYQ 3209
QY 76 WIGLRREEKQSNSTACQDLVYAWTDGSIQFRNMYVDEP-----SCGSEVCVVMYHQPSAP 131
Db 3210 WIGL-----NDKMFHDFRWDGSLQYENWRPNQDPSFFSTGEDCVVVIWHENG-- 3259
QY 132 AGIGGPFYMFQWDDRCNMKNFICKYS-----DEKPAVPSREAAGE----- 172
Db 3260 -----QWNDVPCNYHLTYTCKKGTACGQPPVVENAKTFGKMKPRYEINSLIRYHC 3310
QY 173 -----ETELTT-----PVL-----PEETQEEADAKTFKESREAAALN 203
Db 3311 KDGFIQRLHPTIRCLNGRWAMPKITCLNPSAYQRTYSKKYFKNSSSAKDN 3361
RESULT 6
S28764
neurocan precursor - rat
C;Species: Rattus norvegicus (Norway rat)
C;Date: 22-Nov-1993 #sequence_revision 01-Sep-1995 #text_change 04-Feb-2000
C;Accession: S28764
R;Rauch, U.; Karthikeyan, L.; Maurel, P.; Margolis, R.U.; Margolis, R.K.
J. Biol. Chem. 267, 19536-19547, 1992
A;Title: Cloning and primary structure of neurocan, a developmentally regulated, aggrega
A;Reference number: S28764; MUID:92406907; PMID:1326557
A;Accession: S28764

A;Molecule type: mRNA
A;Residues: 1-1257 <RAU>
A;Cross-references: EMBL:M97161; NID:g205649; PIDN:AAC37679.1; PID:g205650
C;Superfamily: aggrecan; C-type lectin homology; complement factor H repeat homology; EG
C;Keywords: chondroitin sulfate proteoglycan; glycoprotein
F;1-22/Domain: signal sequence #status predicted <SIG>
F;23-1257/Product: neurocan #status predicted <MAT>
F;176-253/Domain: link protein repeat homology <LNK1>
F;274-355/Domain: link protein repeat homology <LNK2>
F;364-366/Region: cell attachment (R-G-D) motif
F;953-984/Domain: EGF homology <EGF>
F;1029-1149/Domain: C-type lectin homology <LCH>
F;1156-1212/Domain: complement factor H repeat homology <FHD>
F;121,339,737,967,1164/Binding site: carbohydrate (Asn) (covalent) #status predicted
F;372,410/Binding site: chondroitin sulfate (Ser) (covalent) #status predicted
F;944/Binding site: chondroitin sulfate (Ser) (covalent) #status experimental
Query Match 15.6%; Score 174; DB 2; Length 1257;
Best Local Similarity 30.8%; Pred. No. 3.9e-07;
Matches 44; Conservative 18; Mismatches 49; Indels 32; Gaps 6;
QY 17 QRPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSIIESEDEQKLIKFIENLLPSDGDGF 76
Db 1037 QGHCYR--YF---AHRRAWEDAERDCRRAGHLTSVHSPEEHKFNFSF-----GHENSW 1085
QY 77 IGLRRREEKQSNSTACQDLVYAWTDGSIQFRNMYVDEPS---CGSEVCVVMYHQPSAPAG 133
Db 1086 IGLNDRTVRD-----FQWTDNTGLQYENWRKQPDNFFAGGEDCVVVIWHENG--- 1134
QY 134 IGGPYMFQWDDRCNMKNFICK 156
Db 1135 -----RWNDVPCNYNLPYVCK 1150
RESULT 7
A55535
versican precursor - mouse
N;Alternate names: chondroitin sulfate proteoglycan 2; chondroitin sulfate proteoglycan
versican
N;Contains: glial hyaluronate-binding protein
C;Species: Mus musculus (house mouse)
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
C;Accession: A55535
R;Ito, K.; Shinomura, T.; Zako, M.; Ujita, M.; Kimata, K.
J. Biol. Chem. 270, 958-965, 1995
A;Title: Multiple forms of mouse PG-M, a large chondroitin sulfate proteoglycan generate
A;Reference number: A55535; MUID:95122551; PMID:7822336
A;Accession: A55535
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
A;Residues: 1-2397 <RES>
A;Cross-references: GB:D16263; NID:g862460; PIDN:BAA03796.1; PID:g862461
C;Superfamily: versican; C-type lectin homology; complement factor H repeat homology; EG
F;1-20/Domain: signal sequence #status predicted <SIG>
F;21-1654/Domain: versican #status predicted <MAT>
F;167-244/Domain: link protein repeat homology <LNK1>
F;265-346/Domain: link protein repeat homology <LNK2>
F;2095-2126/Domain: EGF homology <EG1>
F;2133-2164/Domain: EGF homology <EG2>
F;2171-2291/Domain: C-type lectin homology <LCH>
F;2298-2354/Domain: complement factor H repeat homology <FHD>
Query Match 15.6%; Score 174; DB 1; Length 2397;
Best Local Similarity 28.5%; Pred. No. 9.3e-07;
Matches 47; Conservative 23; Mismatches 55; Indels 40; Gaps 8;
QY 17 QRPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSIIESEDEQKLIKFIENLLPSDGDGF- 75
Db 2179 QGQCYK--YF---AHRRTWDAARECRQLQGAHLTSILSHEEQMFVNRV-----GHDYQ 2226
QY 76 WIGLRREEKQSNSTACQDLVYAWTDGSIQFRNMYVDEP---SCGSEVCVVMYHQPSAP 131
Db 2227 WIGL-----NDKMFHDFRWDGSLQYENWRPNQDPSFFSAGEDCVVVIWHENG-- 2276

QY 132 AGIGPYMFQWDDRCNMKNFICKYS----DEKPAVPSREAEGE 172
 Db 2277 -----QWNDVPCNYHLTYTCKKGTACGQPPVVENAKTFGK 2312

RESULT 8
 A60979
 versican precursor - human
 N;Alternate names: chondroitin sulfate proteoglycan 2; chondroitin sulfate proteoglycan
 N;Contains: glial hyaluronate-binding protein
 C;Species: Homo sapiens (man)
 C;Date: 10-Sep-1999 #sequence revision 10-Sep-1999 #text change 19-Jan-2001
 C;Accession: S06014; S43921; A60979; A30358; A29348; A45131; I54179
 R;Zimmermann, D.R.; Ruoslahti, E.
 EMBO J. 8, 2975-2981, 1989
 A;Title: Multiple domains of the large fibroblast proteoglycan, versican.
 A;Reference number: S06014; MUID:90059882; PMID:2583089
 A;Accession: S06014
 A;Molecule type: mRNA
 A;Residues: 1-2409 <ZIM>
 A;Cross-references: GB:X15998; NID:g37662; PIDN:CAA34128.1; PID:g37663
 R;Yao, L.Y.; Moody, C.; Schoenherr, E.; Wight, T.N.; Sandell, L.J.
 Matrix Biol. 14, 213-225, 1994
 A;Title: Identification of the proteoglycan versican in aorta and smooth muscle cells by
 A;Reference number: S43921; MUID:95005762; PMID:7921538
 A;Accession: S43921
 A;Molecule type: mRNA
 A;Residues: 208-440;1094-1385;1910-2246 <YAO>
 R;Bignami, A.; Lane, W.S.; Andrews, D.; Dahl, D.
 Brain Res. Bull. 22, 67-70, 1989
 A;Title: Structural similarity of hyaluronate binding proteins in brain and cartilage.
 A;Reference number: A60979; MUID:89229983; PMID:2469524
 A;Accession: A60979
 A;Molecule type: protein
 A;Residues: 171-210;289-303 <BIG>
 R;Perides, G.; Lane, W.S.; Andrews, D.; Dahl, D.; Bignami, A.
 J. Biol. Chem. 264, 5981-5987, 1989
 A;Title: Isolation and partial characterization of a glial hyaluronate-binding protein.
 A;Reference number: A30358; MUID:89174663; PMID:2466833
 A;Accession: A30358
 A;Molecule type: protein
 A;Residues: 24-50;180-87,'D',89-119;128-155;167-218;229-259,'IR',261-268;277-283,'G',285-
 R;Krusius, T.; Gehlsen, K.R.; Ruoslahti, E.
 J. Biol. Chem. 262, 13120-13125, 1987
 A;Title: A fibroblast chondroitin sulfate proteoglycan core protein contains lectin-like
 A;Reference number: A29348; MUID:88007514; PMID:2820964
 A;Accession: A29348
 A;Molecule type: mRNA
 A;Residues: 1725,'V',1727-2409 <KRU>
 A;Cross-references: GB:J02814
 R;Perides, G.; Rahemtulla, F.; Lane, W.S.; Asher, R.A.; Bignami, A.
 J. Biol. Chem. 267, 23883-23887, 1992
 A;Title: Isolation of a large aggregating proteoglycan from human brain.
 A;Reference number: A45131; MUID:93054750; PMID:1429726
 A;Contents: brain
 A;Accession: A45131
 A;Molecule type: protein
 A;Residues: 21-22,'X',24-37 <PE2>
 A;Experimental source: brain
 A;Note: sequence extracted from NCBI backbone (NCBIP:118884)
 R;Iozzo, R.V.; Naso, M.F.; Cannizzaro, L.A.; Wasmuth, J.J.; McPherson, J.D.
 Genomics 14, 845-851, 1992
 A;Title: Mapping of the versican proteoglycan gene (CSPG2) to the long arm of human chr
 A;Reference number: I54179; MUID:93122792; PMID:1478664
 A;Accession: I54179
 A;Status: translated from GB/EMBL/DBJ
 A;Molecule type: DNA
 A;Residues: 251-347 <RES>
 A;Cross-references: GB:S52488; NID:G263313; PIDN:AAB24878.1; PID:G263314
 C;Genetics:
 A;Gene: GDB:CSPG2
 A;Cross-references: GDB:127873; OMIM:118661

A;Map position: 5q12-5q14
 C;Superfamily: versican; C-type lectin homology; complement factor H repeat homology; EGF
 F;1-20/Domain: signal sequence #status predicted <SIG>
 F;21-2409/Product: proteoglycan 24K core protein #status predicted <MAT>
 F;167-244/Domain: link protein repeat homology <LNK1>
 F;265-346/Domain: link protein repeat homology <LNK2>
 F;559-1654/Domain: chondroitin sulfate attachment #status predicted <GAG>
 F;2106-2137/Domain: EGF homology <EG1>
 F;2144-2175/Domain: EGF homology <EG2>
 F;2182-2302/Domain: C-type lectin homology <LCH>
 F;2309-2365/Domain: complement factor H repeat homology <FHD>

Query Match 15.6%; Score 174; DB 1; Length 2409;
 Best Local Similarity 28.5%; Pred. No. 8.4e-07;
 Matches 47; Conservative 23; Mismatches 55; Indels 40; Gaps 8;

QY 17 QRPCYKVIYFHDTSRRLNFEAEKACRRDGGQLVSIESDEQKLEKFIENLLPSDGF- 75
 Db 2190 QGQCYK--YF---AHRRTWDAERECLQGAHLTSLSHEEQMFVNRV-----GHDIYQ 2237

QY 76 WIGLRRREEKQSNSTACQDLYAWTDGSGISQFRNYYVDEP-----SCGSEVCVVMYHQPSAP 131
 Db 2238 WIGL-----NDKMFEDHDFRWDGTLQYENWRPNQPDSPFSAGEDCVVIWHENG-- 2287

QY 132 AGIGPYMFQWDDRCNMKNFICKYS----DEKPAVPSREAEGE 172
 Db 2288 -----QWNDVPCNYHLTYTCKKGTACGQPPVVENAKTFGK 2323

RESULT 9
 A47171
 chondroitin sulfate proteoglycan PG-M core protein - chicken
 C;Species: Gallus gallus (chicken)
 C;Date: 21-Sep-1993 #sequence_revision 18-Nov-1994 #text_change 21-Jul-2000
 C;Accession: A47171
 R;Shinomura, T.; Nishida, Y.; Ito, K.; Kimata, K.
 J. Biol. Chem. 268, 14461-14469, 1993
 A;Title: cDNA cloning of PG-M, a large chondroitin sulfate proteoglycan expressed during

A;Reference number: A47171; MUID:93300846; PMID:8314802
 A;Accession: A47171
 A;Status: preliminary
 A;Molecule type: nucleic acid
 A;Residues: 1-3562 <SHI>
 A;Cross-references: GB:D13542; NID:g391643; PIDN:BAA02742.1; PID:g391644
 A;Experimental source: stage 22-23 developing limb buds
 A;Note: sequence extracted from NCBI backbone (NCBIN:134456, NCBIP:134457)
 C;Superfamily: chicken chondroitin sulfate proteoglycan PG-M core protein; C-type lectin
 F;166-243/Domain: link protein repeat homology <LNK1>
 F;264-345/Domain: link protein repeat homology <LNK2>
 F;3258-3289/Domain: EGF homology <EGF1>
 F;3296-3327/Domain: EGF homology <EGF>
 F;3334-3454/Domain: C-type lectin homology <LCH>
 F;3461-3517/Domain: complement factor H repeat homology <FHD>

Query Match 15.3%; Score 171; DB 2; Length 3562;
 Best Local Similarity 28.5%; Pred. No. 2.4e-06;
 Matches 47; Conservative 23; Mismatches 55; Indels 40; Gaps 8;

QY 17 QRPCYKVIYFHDTSRRLNFEAEKACRRDGGQLVSIESDEQKLEKFIENLLPSDGF- 75
 Db 3342 QGQCYK--YF---AHRRTWDAERECLQGAHLTSLSHEEQMFVNRV-----GHDIYQ 3389

QY 76 WIGLRRREEKQSNSTACQDLYAWTDGSGISQFRNYYVDEP-----SCGSEVCVVMYHQPSAP 131
 Db 3390 WIGL-----NDKMFEDHDFRWDGTLQYENWRPNQPDSPFSAGEDCVVIWHENG-- 3439

QY 132 AGIGPYMFQWDDRCNMKNFICKYS----DEKPAVPSREAEGE 172
 Db 3440 -----QWNDVPCNYHLTYTCKKGTACGQPPVVENAKTFGK 3475

RESULT 10


```

Db      2012 FATGEDCVMIWHERG-----EWNDVPCNYQLPFTCKKGTVACGDPVVEHART 2060
QY      170 EGEETE 175
      |:::
Db      2061 LGQKKD 2066

RESULT 21
E89130
protein F52E1.2 [imported] - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 10-May-2001 #sequence_revision 10-May-2001 #text_change 10-May-2001
C;Accession: E89130
R;anonymous, The C. elegans Sequencing Consortium.
Science 282, 2012-2018, 1998
A;Title: Genome sequence of the nematode C. elegans: a platform for investigating biology
A;Reference number: A75000; MUID:99069613; PMID:9851916
A;Note: see websites genome.wustl.edu/gsc/C_elegans/ and www.sanger.ac.uk/projects/C_elegans/
A;Note: published errata appeared in Science 283, 35, 1999; Science 283, 2103, 1999; and
A;Accession: E89130
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-253 <STO>
A;Cross-references: GB:chr_V; PIDN:AAB37037.1; PID:g1086809; GSPDB:GN00023; CESP:F52E1.2
C;Genetics:
A;Gene: F52E1.2
A;Map position: 5

```

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Dbb 672 QGACYK---HFSTR-SWEAEASQCRAALGAHLTSICTPEQDFVNDRYREYQ----- 719
Qy 76 WIGLRRREKQNSTACQDLYAWTDGSIQFRNWYVDEPS---CGSEVCVVM-YHQPSAP 131
Dbb 720 WIGL-----NDRITIEGDFLWSDGAPLLYENWNPGQPSYFLSGENCVVMVWHDQG-- 769
Qy 132 AGIGGPFYMFQWDDRCNMKNFICK 156
Dbb 770 -----QWSDVPCNYHLSYTK 785

RESULT 23
LNRC1
lectin BRA3-1 precursor - barnacle (Megabalanus rosa)
C:Species: Megabalanus rosa
C:Date: 24-Feb-1994 #sequence_revision 09-Sep-1994 #text_change 16-Jul-1999
C:Accession: JCI503; A26094
R:Takamatsu, N.; Takeda, T.; Kojima, M.; Heishi, M.; Muramoto, K.; Kamiya, H.; Shiba, T.
Gene 128, 251-255, 1993
A:Title: Acorn barnacle Megabalanus rosa lectin (BRA-3): cDNA cloning, gene structure and
A:Reference number: JCI503; MUID:93292994; PMID:8514190
A:Accession: JCI503
A:Molecule type: DNA; mRNA
A:Residues: 1-162 <TAK>
A:Cross-references: DDBJ:D13299
R:Muramoto, K.; Kamiya, H.
Biochim. Biophys. Acta 874, 285-295, 1986
A:Title: The amino-acid sequence of a lectin of the acorn barnacle Megabalanus rosa.
A:Reference number: A26094
A:Accession: A26094
A:Molecule type: protein
A:Residues: 25-145, 'K', 147-162 <MUR>
A:Note: 146-Arg was also found
C:Comment: This galactose-binding lectin is isolated from the coelomic fluid.
C:Comment: This protein plays important roles in defense mechanisms and in development ar
C:Comment: The molecule is a tetramer of identical chains.
C:Genetics:
A:Introns: 22/1; 47/2; 86/3
C:Superfamily: tetranectin; C-type lectin homology
C:Keywords: hemolymph; homotetramer; lectin
F:1-24/Domain: signal sequence #status predicted <SIG>
F:25-162/Product: lectin BRA3-1 #status experimental <MAT>
F:26-150/Domain: C-type lectin homology <LCH>
F:26-39,56-150,125-142/Disulfide bonds: #status experimental
F:157/Disulfide bonds: interchain (to 160) #status experimental
F:160/Disulfide bonds: interchain (to 157) #status experimental

Query Match 13.1%; Score 146.5; DB 1; Length 162;
Best Local Similarity 25.0%; Pred. No. 9.8e-06;
Matches 40; Conservative 26; Mismatches 59; Indels 35; Gaps 6;

Qy 5 LLSGQPVRGGTQPCYKVIYFHDTSRRLNFEEAEACR--RDGGQLVSISEDEQKLE 62
Dbb 19 ITTGECTCPGNLDQWEYDGHCVWASTYQVRWNAQLACQTVHPGAYLATIQSLENAFIS 78
Qy 63 KFIENLLPSDGDWFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWYVDEPS-----C 116
Dbb 79 ETVSN-----NRLWIGL-----NDIDLEGHYVWSNGEATDFTYWSNNPNWENQDC 125
Qy 117 GSEVCVVMYHQPSAPAGIGGPFYMFQWDDRCNMKNFICK 156
Dbb 126 G-----VNYDVTVG-----QWDDDDCNKRNFLCK 151

```


J. Biol. Chem. 268, 23504-23511, 1993
A;Title: cDNA cloning of chick cartilage chondroitin sulfate (aggrecan) core protein and
A;Reference number: A4884; MUID:94043149; PMID:8226878
A;Accession: I50421
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: mRNA
A;Residues: 1-2109 <LIX>
A;Cross-references: GB:L21913; NID:G416133; PIDN:AAB19128.1; PID:G416134
R;Chandrasekaran, L.; Tanzer, M.L.
Biochem. J. 296, 885-887, 1993
A;Reference number: S39796; MUID:94107258; PMID:8280087
A;Contents: annotation; erratum
A;Accession: S39796
A;Molecule type: mRNA
A;Residues: 1-361, 'DL', 364-600, 'R', 602-999, 'R', 1001-1028, 'P', 1030-1250, 'D', 1252-1602, 'A'
A;Cross-references: GB:M88101
R;Chandrasekaran, L.; Tanzer, M.L.
Biochem. J. 288, 903-910, 1992
A;Title: Molecular cloning of chicken aggrecan. Structural analyses.
A;Reference number: S27356; MUID:93111968; PMID:1339285
A;Accession: S27356
A;Molecule type: mRNA
A;Residues: 1-361, 'DL', 364-600, 'R', 602-999, 'R', 1001-1028, 'P', 1030-1250, 'D', 1252-1549, 'T'
A;Cross-references: EMBL:M88101
R;Sai, S.; Tanaka, T.; Koshier, R.A.; Tanzer, M.L.
Proc. Natl. Acad. Sci. U.S.A. 83, 5081-5085, 1986
A;Title: Cloning and sequence analysis of a partial cDNA for chicken cartilage proteogly
A;Reference number: A25442; MUID:86259736; PMID:3460082
A;Accession: A25442
A;Molecule type: mRNA
A;Residues: 1693-1795, 'G', 1797-1855, 1894-2109 <SAI>
A;Cross-references: GB:M13993; NID:G211654; PIDN:AAA48720.1; PID:G211655
A;Experimental source: sternal cartilage
R;Tanaka, T.; Har-El, R.; Tanzer, M.L.
J. Biol. Chem. 263, 15831-15835, 1988
A;Title: Partial structure of the gene for chicken cartilage proteoglycan core protein.
A;Reference number: A32002; MUID:89008500; PMID:3170613
A;Accession: A32002
A;Molecule type: DNA
A;Residues: 1893-1987, 'S', 1989-2022 <TAN>
A;Note: the authors translated the codon TCC for residue 1787 as Phe
R;Krueger, R.C.
J. Biol. Chem. 265, 12088-12097, 1990
A;Title: Chick cartilage chondroitin sulfate proteoglycan core protein: II. Nucleotide s
A;Reference number: I50216; MUID:90307744; PMID:1694853
A;Accession: I50216
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: mRNA
A;Residues: 'PA', 1044-1559 <KRU>
A;Cross-references: GB:M38187; NID:G211685; PIDN:AAA48731.1; PID:G555441
R;Krueger Jr., R.C.; Fields, T.A.; Hildreth IV, J.; Schwartz, N.B.
J. Biol. Chem. 265, 12075-12087, 1990
A;Title: Chick cartilage chondroitin sulfate proteoglycan core protein. I. Generation an
A;Reference number: A37072; MUID:90307743; PMID:2365711
A;Accession: A37072
A;Molecule type: protein
A;Residues: 998-1015, 'X', 1017-1019, 'X', 1021-1023 <KR2>
A;Note: amino end of 86K core peptide CS-A
A;Accession: B37072
A;Molecule type: protein
A;Residues: 1247-1250, 'D', 1252-1272, 'X', 1274-1275 <KR3>
A;Note: amino end of 75K core peptide CS-B
A;Superfamily: aggrecan; C-type lectin homology; complement factor H repeat homology; EG
C;Keywords: alternative splicing
F;1-20/Domain: signal sequence #status predicted <SIG>
F;21-2109/Product: aggrecan #status predicted <MAT>
F;44-131/Domain: immunoglobulin homology <IMM>
F;166-243/Domain: link protein repeat homology <LNK1>
F;264-346/Domain: link protein repeat homology <LNK2>
F;537-614/Domain: link protein repeat homology <LNK3>
F;635-716/Domain: link protein repeat homology <LNK4>
F;1859-1890/Domain: EGF homology <EGF>
F;1897-2017/Domain: C-type lectin homology <LCH>

F;2024-2080/Domain: complement factor H repeat homology <FHD>
Query Match 13.1%; Score 146; DB 1; Length 2109;
Best Local Similarity 25.0%; Pred. No. 0.00022;
Matches 42; Conservative 28; Mismatches 58; Indels 40; Gaps 8;
QY 17 QRPCYKVIYFHDTSRRLNFEAEKACRRDGGQLVSISEDEQKLIKFIENLLPSDGF- 75
Db 1905 QGHCYR--HFEE---RETWMDAESRCREHQAHLSSIITPEQEFVNSHAQ-----DYQ 1952
QY 76 WIGLRRBEKQSNSTACQDLYAWTDGSIQFRNWWYVDEPS---CGSEVCVVMYHQPSP 131
Db 1953 WIGLSDR-----AVENDFRWSDGHSLSQFENWRPNQDNFFAFAGEDCVVMIWHEQG-- 2002
QY 132 AGIGGYPYMFQWDDRCNMKNFNICKYS---DEKPAVPSREAEGETE 175
Db 2003 -----EWNDVPCNYHLPTCKKGTVACGDPVVENARTFGRKKD 2041
RESULT 25
JC7595
scavenger receptor with C-type lectin type I - human
C;Species: Homo sapiens (man)
C;Date: 30-Jun-2001 #sequence_revision 30-Jun-2001 #text_change 30-Jun-2001
C;Accession: JC7595
R;Nakamura, K.; Funakoshi, H.; Miyamoto, K.; Tokunaga, F.; Nakamura, T.
Biochem. Biophys. Res. Commun. 280, 1028-1035, 2001
A;Title: Molecular cloning and functional characterization of a human scavenger receptor
A;Reference number: JC7595; MUID:21092718; PMID:11162630
A;Contents: Placenta
A;Accession: JC7595
A;Molecule type: mRNA
A;Residues: 1-742 <NAK>
A;Cross-references: DDBJ:AB038518
C;Comment: This receptor, a member of the scavenger receptor family, belonging to the ty
important role in host defense. It forms a timer and plays a role in recognizing infect
C;Genetics:
A;Gene: srcl-I
A;Map position: 18p11.32
C;Keywords: coiled coil; glycoprotein; transmembrane protein
F;1-39/Domain: cytosolic (amino-terminus) #status predicted <CYT>
F;16-19/Region: internalization signal YKRF
F;40-56/Domain: transmembrane #status predicted <TMM>
F;57-112/Domain: extracellular #status predicted <EXT>
F;113-335/Domain: coiled coil #status predicted <COC>
F;369-384/Region: serine/threonine-rich #status predicted
F;443-589/Domain: collagen-like #status predicted <COL>
F;607-732/Domain: C-type lectin/carbohydrate recognition domain #status predicted <CRD>
Query Match 13.0%; Score 145.5; DB 2; Length 742;
Best Local Similarity 28.7%; Pred. No. 7.1e-05;
Matches 39; Conservative 17; Mismatches 61; Indels 19; Gaps 5;
QY 25 YFHDTSRRLNFEAEKACRRDGGQLVSISEDEQKLIKFIENLLPSDGFWIGLRRREE 84
Db 619 YYFSVEREI-FEDAKLFCEDKSSHLVFINTRREEQQWIKK---QMVGRSHWIGLTDSE 673
QY 85 QQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEVCVVMYHQPSPAGIGGPPYMFQW 144
Db 674 ENE-----WKWLDGTSPTYKNWKAGQPDNWGH-----GHGPGEDCA-GLIYAGQW 719
QY 145 DRCNMKNFNICKYSDE 160
Db 720 FQCEDVNNFICEKDRE 735
RESULT 26
S49126
brevican precursor - rat
N;Alternate names: aggrecan-like protein
C;Species: Rattus norvegicus (Norway rat)
C;Date: 01-Feb-1995 #sequence_revision 12-May-1995 #text_change 26-May-2000
C;Accession: S49126; I55457

R:Seidenbecher, C.I.; Langnese, K.; Wax, H.; Seidel, B.; Garner, C.C.; Gundelfinger, E.D.
submitted to the EMBL Data Library, June 1994
A;Description: Molecular cloning of a new member of the aggregan/versican family of proteoglycans
A;Reference number: S49126
A;Accession: S49126

A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-883 <SBI>
A;Cross-references: EMBL:X79881; NID:G509396; PIDN:CAA56255.1; PID:G509397
R:Seidenbecher, I.C.; Richter, K.; Rauch, U.; Fassler, R.; Garner, C.C.; Gundelfinger, E.
J. Biol. Chem. 270, 27206-27212, 1995
A;Title: Brevican, a Chondroitin Sulfate Proteoglycan of Rat Brain, Occurs as Secreted and
A;Reference number: I55457; MUID:96070828; PMID:7592978
A;Accession: I55457

A;Status: translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
A;Residues: 1-883 <RES>
A;Cross-references: EMBL:X79881; NID:G509396; PIDN:CAA56255.1; PID:G509397
C;Comment: For an alternative splice form, see PIR:A53908.

C;Superfamily: aggregan; C-type lectin homology; complement factor H repeat homology; EGF
C;Keywords: alternative splicing
F;49-138/Domain: immunoglobulin homology <IMM>
F;173-250/Domain: link protein repeat homology <LNK1>
F;271-352/Domain: link protein repeat homology <LNK2>
F;626-657/Domain: EGF homology <EGF>
F;664-784/Domain: C-type lectin homology <LCH>
F;791-847/Domain: complement factor H repeat homology <FHD>

Query Match 13.0%; Score 145; DB 2; Length 883;
Best Local Similarity 29.7%; Pred. No. 9.6e-05;
Matches 43; Conservative 20; Mismatches 46; Indels 36; Gaps 8;

QY 17 QPCYKVIYFHDTSRLNFEFAKEACRRDGGQLVSISEDEQKLI-EKFIENLLPSDGF 75

Db 672 QGACYK---HFSTR-SWEAESQCRALGAHLTSICTPEEQDFVNDREYQ----- 719

QY 76 WIGLRRREKQSNSTACQDLYAWTDGSGISQFRNWWYVDEPS---CGSEVCVM-YHQPSAP 131

Db 720 WIGL-----NDRITGDFLWSDGPPLLYENWNPQDPSYFLSGENCVMVWHDQ-- 769

QY 132 AGIGGPFYMFQWDDRCNMKNFICK 156

Db 770 -----QWSDVPCNHYLSYTK 785

RESULT 27

S10548
lectin - barnacle (Megabalanus rosa)
C;Species: Megabalanus rosa
C;Date: 02-Dec-1993 #sequence_revision 26-May-1995 #text_change 26-May-1995
C;Accession: S10548

R;Muramoto, K.; Kamiya, H.
Biochim. Biophys. Acta 1039, 42-51, 1990
A;Title: The amino-acid sequence of multiple lectins of the acorn barnacle Megabalanus
A;Reference number: S10548; MUID:90283457; PMID:2354200
A;Accession: S10548

A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-173 <MUR>
A;Note: the sequence from Fig. 6 is inconsistent with that from Fig. 5 in having additional

Query Match 13.0%; Score 144.5; DB 2; Length 173;
Best Local Similarity 28.6%; Pred. No. 1.6e-05;
Matches 38; Conservative 18; Mismatches 50; Indels 27; Gaps 5;

QY 26 FHDTSRLNFEFAKEACRR--DGGQLVSISEDEQKLIKFIENLLPSDGFHWIGLRRRE 83

Db 62 FHVPLEKASWVAHGVCARLDSRARLASIDAAD-QAVVEPL-----SSEKWIGL---- 110

QY 84 EKQSNSTACQDLYAWTDGSGISQFRNWWYVDEPSGSEVCVMYHQPSAPAGIGGPFYMFQWN 143

Db 111 -----SYDSANDAAVWADDSSHRNWWYATQPDDESELCLVEDQYR-----QWH 156

QY 144 DDCRCNMKNFICK 156

Db 157 DYNCDRYNFVCE 169

RESULT 28

S23936
L-selectin precursor - rat
N;Alternate names: leucocyte cell adhesion molecule 1 (LECAM-1)
C;Species: Rattus norvegicus (Norway rat)
C;Date: 02-Dec-1993 #sequence_revision 01-Sep-1995 #text_change 20-Jun-2000
C;Accession: S23936
R;Watanabe, T.; Song, Y.; Hirayama, Y.; Tamatani, T.; Kuida, K.; Miyasaka, M.
Biochim. Biophys. Acta 1131, 321-324, 1992
A;Title: Sequence and expression of a rat cDNA for LECAM-1.
A;Reference number: S23936; MUID:92329548; PMID:1378303
A;Accession: S23936

A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-372 <WAT>
A;Cross-references: GB:D10831; NID:G220801; PIDN:BAA01613.1; PID:G220802
C;Superfamily: L-selectin; C-type lectin homology; complement factor H repeat homology;
C;Keywords: transmembrane protein
F;29-155/Domain: C-type lectin homology <LCH>
F;160-191/Domain: EGF homology <EGF>
F;197-254/Domain: complement factor H repeat homology <FH1>
F;259-316/Domain: complement factor H repeat homology <FH2>

Query Match 13.0%; Score 144.5; DB 2; Length 372;
Best Local Similarity 26.5%; Pred. No. 3.9e-05;
Matches 41; Conservative 35; Mismatches 52; Indels 27; Gaps 8;

QY 26 FHDTSRLNFEFAKEACRRDGGQLVSISEDEQKLIKFIENLLPSDGD-FWIGLRRRE 84

Db 41 YHSERSMWNENARKFCKHNYTDLVAIQNKR---IE-YLEKTLPKNPTYWIGIRK--- 93

QY 85 KQSNSTACQDLYAW--TDGSIS-QFRNWWYVDEPS--CGSEVCVMYHQPSAPAGIGGPFY 139

Db 94 -----IGKTWTWVGINKTLTKEAENWGTGEPNNKSKEDCCEIYIKRERDSG----- 140

QY 140 FQWDDRCNMKNFICKYSDEKPAVPSREAGEET 174

Db 141 -KWDDACHKRKAALCYTASCQEPESCNRHGECVET 174

RESULT 29

A46274
HIV gp120-binding C-type lectin - human
C;Species: Homo sapiens (man)
C;Date: 21-Sep-1993 #sequence_revision 18-Nov-1994 #text_change 01-Dec-1995
C;Accession: A46274

R;Curtis, B.M.; Scharnowske, S.; Watson, A.J.
Proc. Natl. Acad. Sci. U.S.A. 89, 8356-8360, 1992
A;Title: Sequence and expression of a membrane-associated C-type lectin that exhibits CD4
A;Reference number: A46274; MUID:92390446; PMID:1518869
A;Accession: A46274

A;Status: preliminary
A;Molecule type: nucleic acid
A;Residues: 1-404 <CUR>
A;Experimental source: placenta
A;Note: sequence extracted from NCBI backbone (NCBIN:113134, NCBI:113135)
C;Superfamily: C-type lectin homology
F;256-377/Domain: C-type lectin homology <LCH>

Query Match 13.0%; Score 144.5; DB 2; Length 404;
Best Local Similarity 29.7%; Pred. No. 4.3e-05;
Matches 47; Conservative 23; Mismatches 47; Indels 41; Gaps 10;

QY 25 YFHDTSRLNFEFAKEACRRDGGQLVSISEDEQKLIKFIENLLPSDGFHWIGLRRRE 84

Db 268 YFMSNSQR-NWHDSTACKVEGQALVVIKSAEQNFQLQSSR---SNRFTWGLSLDNQ 323

QY 85 KQSNSTACQDLYAWTDGS--ISQFRN-WYVDEP--CGSEVCVMYHQPSAPAGIGGPFY 140

Db 324 -----EGTQWVDGSPLLPSFKQYWNRGPNVYGEEDCAEF-----SGNG----- 363
QY 141 QWDDRCNMKNFICKYS-----DEK-----PAVPS 166
Db 364 -WNDDKCNLAKFWICKSAASCSRDDEEQFLSPAPATPN 400

RESULT 30

JC4329
coagulation factor IX-binding protein A chain - habu
C;Species: Trimeresurus flavoviridis (habu)
C;Date: 06-Dec-1995 #sequence_revision 08-Feb-1996 #text_change 13-Mar-1998
C;Accession: JC4329
R;Atoda, H.; Ishikawa, M.; Yoshihara, E.; Sekiya, F.; Morita, T.
J. Biochem. 118, 965-973, 1995
A;Title: Blood coagulation factor IX-binding protein from the venom of Trimeresurus flav
A;Reference number: JC4329; MUID:96318509; PMID:8749314
A;Accession: JC4329

A;Molecule type: protein
A;Residues: 1-129 <ATO>
C;Comment: This protein binds calcium.
C;Superfamily: tetranectin; C-type lectin homology
C;Keywords: anticoagulant; blood coagulation; calcium binding; venom
F;2-127/Domain: C-type lectin homology <LCH>
F;2-13,30-127,102-119/Disulfide bonds: #status predicted

Query Match 12.9%; Score 143.5; DB 2; Length 129;
Best Local Similarity 29.6%; Pred. No. 1.4e-05;
Matches 42; Conservative 22; Mismatches 47; Indels 31; Gaps 7;

QY 20 CYKVIYFH--DTSRRLNFEBAKEACRRDGGQLVSISEDEQKLIKFI-ENLLPSDGD 75

Db 13 CYKPKLYKTWDDAEFCTEQAK-----GGHLVSIESAGEADFVAQLVTENIQNTKSYV 66

QY 76 WIGLR-RREEKQSNSTACQDLYAWTDGSIQFRNMYVDPEPCSGSEVCVMYHQPSAPAGI 134

Db 67 WIGLRVQKEKQCSS-----EWSDGSSVSyenwIEAE---SKTCLGLEKETG----- 110

QY 135 GGPYMFQWDDRCNMKNFICK 156

Db 111 ----FRKWNVYCGQQNPFVCE 128

RESULT 31

A32375
L-selectin precursor - mouse
N;Alternate names: lymph node homing receptor MEL-14; lymphocyte surface antigen Ly-22
C;Species: Mus musculus (house mouse)
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 21-Jan-2000
C;Accession: A32375; A35102; A40167; A60906
R;Lasky, L.A.; Singer, M.S.; Yednock, T.A.; Dowbenko, D.; Fennie, C.; Rodriguez, H.; Ngu
Cell 56, 1045-1055, 1989
A;Title: Cloning of a lymphocyte homing receptor reveals a lectin domain.
A;Reference number: A32375; MUID:89168433; PMID:2647302

A;Accession: A32375
A;Molecule type: mRNA
A;Residues: 1-372 <LAS>
A;Cross-references: GB:M25324; NID:g198803; PIDN:AAA39431.1; PID:g198804
R;Siegelman, M.H.; Cheng, I.C.; Weissman, I.L.; Wakeland, E.K.
Cell 61, 611-622, 1990
A;Title: The mouse lymph node homing receptor is identical with the lymphocyte cell surf
A;Reference number: A35102; MUID:90263086; PMID:1693096

A;Accession: A35102
A;Status: not compared with conceptual translation
A;Molecule type: mRNA
A;Residues: 1-372 <SIE1>
A;Cross-references: GB:M36005; NID:g199735; PIDN:AAA39722.1; PID:g199736; GB:M36058; NID
R;Siegelman, M.H.; van de Rijn, M.; Weissman, I.L.
Science 243, 1165-1172, 1989
A;Title: Mouse lymph node homing receptor cDNA clone encodes a glycoprotein revealing ta
A;Reference number: A40167; MUID:89162048; PMID:2646713
A;Accession: A40167

A;Molecule type: mRNA
A;Residues: 1-372 <SIE2>

A;Cross-references: GB:X14772; NID:g52942; PIDN:CAA32880.1; PID:g52943

A;Note: part of this sequence, including the amino end of the mature protein, was confir
R;Siegelman, M.; Bond, M.W.; Gallatin, W.M.; St. John, T.; Smith, H.T.; Fried, V.A.; Weis
Science 231, 823-829, 1986

A;Title: Cell surface molecule associated with lymphocyte homing is a ubiquitinated bran
A;Reference number: A60906; MUID:86122900; PMID:3003913

A;Accession: A60906

A;Molecule type: protein

A;Residues: 'X',40,'X',42,'XXX',46,'X',48,'XXXXXX',55-56,'X',58,'XXXXXX',65,'V',67,'XL',
C;Comment: This protein is ubiquitinated.

C;Function:

A;Description: binds with low affinity to oligosaccharides like heparan sulfate and sialy
ment of leucocytes to areas of inflammation, and with Cbl62 mediates neutrophil-neutroph
C;Superfamily: L-selectin; C-type lectin homology; complement factor H repeat homology;
C;Keywords: cell adhesion; duplication; glycoprotein; inflammation; phosphoprotein; surf
F;1-38/Domain: signal sequence #status predicted <SIG>
F;29-155/Domain: C-type lectin homology <LCH>

F;39-372/Product: L-selectin #status experimental <MAT>

F;39-331/Domain: extracellular #status predicted <EXT>

F;160-191/Domain: EGF homology <EGF>

F;197-254/Domain: complement factor H repeat homology <PH1>

F;259-316/Domain: complement factor H repeat homology <PH2>

F;332-355/Domain: transmembrane #status predicted <TM>

F;356-372/Domain: intracellular #status predicted <INT>

F;60,104,216,246,278,308,320/Binding site: carbohydrate (Asn) (covalent) #status predict

F;364/Binding site: phosphate (Ser) (covalent) #status predicted

Query Match 12.9%; Score 143.5; DB 1; Length 372;

Best Local Similarity 26.5%; Pred. No. 4.8e-05;

Matches 41; Conservative 37; Mismatches 50; Indels 27; Gaps 8;

QY 26 FHDTSRRLNFEBAKEACRRDGGQLVSISEDEQKLIKFIENLLP-SDGDFWIGLRREE 84

Db 41 YHYSEKPMWENARKFKQNYTDLVAIQNKR---IE-YLENTLPKSPYYWIGIRK--- 93

QY 85 KQSNSTACQDLYAW--TDGSIS-QFRNMYVDEPS--CGSEVCVMYHQPSAPAGICGPYM 139

Db 94 -----IGKWTWVGTKTLTKEAENWGAGEPNKKKXEDCDEVIYIKRERDSG----- 140

QY 140 FQWDDRCNMKNFICKYSDEKPAVPSREAEGEET 174

Db 141 -KWDDACHKKAALCYTASCQPGSCNGRGECVET 174

RESULT 32

T26655

hypothetical protein Y38E10A.e - Caenorhabditis elegans

C;Species: Caenorhabditis elegans

C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 15-Oct-1999

C;Accession: T26655

R;Wallis, J.

submitted to the EMBL Data Library, September 1999

A;Reference number: Z20252

A;Accession: T26655

A;Status: preliminary; translated from GB/EMBL/DBJ

A;Molecule type: DNA

A;Residues: 1-463 <WIL>

A;Cross-references: EMBL:AL110484; NID:e1542205; PIDN:CAB54396.1; CESP:Y38E10A.e

A;Experimental source: clone Y38E10A

C;Genetics:

A;Gene: CESP:Y38E10A.e

A;Introns: 35/2; 107/3; 155/1; 198/1

Query Match

Best Local Similarity 12.9%; Score 143.5; DB 2; Length 463;

Matches 45; Conservative 26; Mismatches 73; Indels 45; Gaps 8;

QY 20 CYKVIYFHDTSRRLNFEBAKEACRRDGGQLVSISEDEQKLIKFIENLLPSD---GDFW 76

Db 208 CYT---FHNTAS--TYTKGQKICEQECGNLASIHANENRYIMTFGGRATKEDLLLGGMW 262

QY 77 IGLRRREKQSNSTACQDLVYAWTDGSIQFRNWWYVDEPSCGSEVGVVMYHQPSAPAGIGG 136
 Db 263 -----PADDVYNWVDGSLWEYENF--DPINVRDVCVIMSGDSRPIALG- 305
 QY 137 PYMFQWNDRCNMKNPFICKYS-----DEKPAVES--REAEGEETELTPV 180
 Db 306 ----MWYSGECKNEYSVCKRPAGIQCPNPPTIVPTMPAVQSCFNCSSVMAPSEITSPH 361
 QY 181 LPEETQEED 189
 Db 362 FPNYNYNSD 370

RESULT 33
 JC5058
 bitiscetin alpha chain - puff adder
 N;Alternate names: von Willebrand factor modulator protein
 C;Species: Bitis arietans (puff adder)
 C;Date: 31-Jan-1997 #sequence_revision 31-Jan-1997 #text_change 12-Feb-1999
 C;Accession: JC5058; JC5916
 R;Matsui, T.; Hamako, J.; Suzuki, M.; Hayashi, N.; Ito, M.; Makita, K.; Fujimura, Y.; Oz
 submitted to JIPID, January 1997
 A;Description: Complete amino acid sequence of bitiscetin, a novel von Willebrand factor
 A;Reference number: JC5058
 A;Contents: snake venom
 A;Accession: JC5058
 A;Molecule type: protein
 A;Residues: 1-131 <MAT>
 A;Experimental source: snake venom
 R;Matsui, T.; Hamako, J.; Suzuki, M.; Hayashi, N.; Ito, M.; Makita, K.; Fujimura, Y.; Oz
 Res. Commun. Biochem. Cell Mol. Biol. 1, 271-284, 1997
 A;Title: Complete amino acid sequence of bitiscetin, a novel von Willebrand factor modul
 A;Reference number: JC5916
 A;Accession: JC5916
 A;Molecule type: protein
 A;Residues: 1-131 <MA2>
 A;Experimental source: venom
 C;Comment: This protein is a modulator of a von Willebrand factor modulator.
 C;Superfamily: tetranectin, C-type lectin homology
 C;Keywords: venom
 F;4-125/Domain: C-type lectin homology <LCH>

Query Match 12.8%; Score 142.5; DB 2; Length 131;
 Best Local Similarity 33.6%; Pred. No. 1.7e-05;
 Matches 47; Conservative 14; Mismatches 48; Indels 31; Gaps 8;
 QY 20 CYKVIYFHDTSRRLNFEAEKACRRDGGQLVSIIESEDEQKLEKFI-ENLLPSDGDFFWIG 78
 Db 15 CYKVFKKVGT-----WEDAEKFCVENSCHLASIDSKEADFTVKLASQTLTKFVYDAWIG 69
 QY 79 LRRREKQSNSTACQDLVYAWTDGSIQFRNWWYVDEPS-C-GSEVGVVMYHQPSAPAGIGG 136
 Db 70 LRDESKTQQCSP-----QWTDGSSVVYEN--VDEPTKCFGLDV-----HTEYR----- 110
 QY 137 PYMFQWNDRCNMKNPFICK 156
 Db 111 ----TWTDLPCKEKNPFICK 126

RESULT 34
 S48719
 phospholipase-A(2) receptor protein - mouse
 C;Species: Mus musculus (house mouse)
 C;Date: 07-May-1995 #sequence_revision 21-Jul-1995 #text_change 20-Jun-2000
 C;Accession: S48719
 R;Higashino, K.; Ishizaki, J.; Kishino, J.; Ohara, O.; Arita, H.
 Eur. J. Biochem. 225, 375-382, 1994
 A;Title: Structural comparison of phospholipase-A(2)-binding regions in phospholipase-A
 A;Reference number: S48719; MUID:95010128; PMID:7925459
 A;Accession: S48719
 A;Status: preliminary
 A;Molecule type: mRNA
 A;Residues: 1-1487 <HIG>

A;Cross-references: GB:D30779; NID:g1375042; PIDN:BAA06443.1; PID:g691754
 C;Superfamily: phospholipase A2 receptor; C-type lectin homology; fibronectin type II re
 F;181-222/Domain: fibronectin type II repeat homology <2F1>
 F;380-503/Domain: C-type lectin homology <LCH>

Query Match 12.7%; Score 142; DB 2; Length 1487;
 Best Local Similarity 26.5%; Pred. No. 0.00032;
 Matches 40; Conservative 22; Mismatches 51; Indels 38; Gaps 6;
 QY 13 RGGTQRPCVKVIYFHDTSRRLNFEAEKACRRDGGQLVSIIESEDEQKLEKFIENLLPSD 72
 Db 238 RNSRRICQ----FNLLSSLSWQAHSCLMQGGALLSIADDEDEDFIRKHLKVVK-- 291
 QY 73 GDFWIGLRRREKQSNSTACQDLVYAWTDGSIQFRNWWYV-----EPSCGSEVGVVMY 125
 Db 292 -EVWIGLNQLDEKAG-----WQWSDGTPLSYLWWSQBITPGPFVEHHCGTLEV--- 339
 QY 126 HQPSAPAGIGGPFYMFQWNDRCNMKNPFICK 156
 Db 340 ---SA-----AWRSRDCESTLPYICK 357

RESULT 35
 LNM5ER
 IGE Fc receptor, low-affinity - mouse
 N;Alternate names: Blast-2; CD23; Fc-epsilon-R1I; lymphocyte IgE receptor
 C;Species: Mus musculus (house mouse)
 C;Date: 12-Feb-1993 #sequence_revision 28-Oct-1994 #text_change 22-Jun-1999
 C;Accession: A43518; A33840
 R;Golnick, S.O.; Trounstein, M.L.; Yamashita, L.C.; Kehry, M.R.; Moore, K.W.
 J. Immunol. 144, 1974-1982, 1990
 A;Title: Isolation, characterization, and expression of cDNA clones encoding the mouse Fc
 A;Reference number: A43518; MUID:90171598; PMID:2137845
 A;Accession: A43518
 A;Molecule type: mRNA
 A;Residues: 1-331 <GOL>
 A;Cross-references: GB:M34163; NID:g193242; PIDN:AAA37603.1; PID:g309227
 R;Bettler, B.; Hofstetter, H.; Rao, M.; Yokoyama, W.M.; Kilchherr, F.; Conrad, D.H.
 Proc. Natl. Acad. Sci. U.S.A. 86, 7566-7570, 1989
 A;Title: Molecular structure and expression of the murine lymphocyte low-affinity recepto
 A;Reference number: A33840; MUID:90017519; PMID:2529542
 A;Accession: A33840
 A;Molecule type: mRNA
 A;Residues: 1-331 <BET>
 A;Cross-references: GB:M99371; NID:g193245; PIDN:AAA74898.1; PID:g193246; GB:M27150
 C;Comment: This receptor for the Fc portion of IgE is expressed in various hematopoietic
 f B-cells.
 C;Superfamily: IgE receptor II; C-type lectin homology
 C;Keywords: B-cell; glycoprotein; immunoglobulin receptor; macrophage; tandem repeat; tra
 F;1-25/Domain: intracellular #status predicted <INT>
 F;14-22/Region: stop-transfer sequence
 F;26-46/Domain: transmembrane #status predicted <TMM>
 F;47-331/Domain: extracellular #status predicted <EXT>
 F;66-86/Region: 21-residue repeat
 F;87-107/Region: 21-residue repeat
 F;108-128/Region: 21-residue repeat
 F;129-149/Region: 21-residue repeat
 F;186-305/Domain: C-type lectin homology <LCH>
 F;65,114/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 12.7%; Score 141.5; DB 1; Length 331;
 Best Local Similarity 31.8%; Pred. No. 6.3e-05;
 Matches 47; Conservative 21; Mismatches 37; Indels 43; Gaps 9;
 QY 17 QRPCYKVIYFHDTSRRLNFEAEKACRRDGGQLVSIIESEDEQKLEKFIENLLPSDGDFFW 76
 Db 194 QOKCY--YFGKSKQ--WQARFACSLQGLRVSISQKEQDFLMQHI-----NKKDSW 243
 QY 77 IGLRRREKQSNSTACQDL-----YAWTDGSIQFRNWWYVDEPSG--SEVGVVMYHQPS 129
 Db 244 IGL-----QDLNMEGEFVWSDGSPVGYSNWNPGEPPNNGQGEDCVM----- 285
 QY 130 APAGIGGPFYMFQWNDRC-NMKNPFICK 156

Db 286 --RSGS-----QWDAFCRSYLDWVCE 306

||||| | : : : :
| |

RESULT 36

LNRC3

Lectin BRA3-2 precursor - barnacle (Megabalanus rosa)

C;Species: Megabalanus rosa

C;Date: 31-Dec-1988 #sequence_revision 09-Sep-1994 #text_change 16-Jul-1999

C;Accession: JCI1504; A26094

R;Takamatsu, N.; Takeda, T.; Kojima, M.; Heishi, M.; Muramoto, K.; Kamiya, H.; Shiba, T.

Gene 128, 251-255, 1993

A;Title: Acorn barnacle Megabalanus rosa lectin (BRA-3): cDNA cloning, gene structure and

A;Reference number: JCI1503; MUID:93292994; PMID:8514190

A;Accession: JCI1504

A;Molecule type: mRNA

A;Residues: 1-162 <TAK>

R;Muramoto, K.; Kamiya, H.

Biochim. Biophys. Acta 874, 285-295, 1986

A;Title: The amino-acid sequence of a lectin of the acorn barnacle Megabalanus rosa.

A;Reference number: A26094

A;Accession: A26094

A;Molecule type: protein

A;Residues: 25-162 <MUR>

A;Note: 146-Arg was also found

C;Comment: This three galactose-binding lectin is isolated from the coelomic fluid.

C;Comment: This protein plays important roles in defense mechanisms and in development a

C;Comment: The molecule is a tetramer of identical chains.

C;Superfamily: tetraelectin; C-type lectin homology

C;Keywords: hemolymph; homotetramer; lectin

F;1-24/Domain: signal sequence #status predicted <SIG>

F;25-162/Product: lectin BRA3-2 #status experimental <MAT>

F;26-39,56-150,125-142/Disulfide bonds: #status experimental

F;157/Disulfide bonds: interchain (to 160) #status experimental

F;160/Disulfide bonds: interchain (to 157) #status experimental

Query Match 12.6%; Score 140.5; DB 1; Length 162;
Best Local Similarity 24.4%; Pred. No. 3.3e-05;
Matches 39; Conservative 26; Mismatches 60; Indels 35; Gaps 6;

QY 5 LLSGQPVRCGGTQRPCYKVIYFHTSRRLNFEAEKACR---RDGGQLVSIESEDEQKLIIE 62

Db 19 ITTAECTCPGNLDWQEYDGHYCWASTYQVRWNDAQLACQTVHPGAYLATIQSLENAPIS 78

QY 63 KFIENLPSDGDGFWIGLRRRREKQNSTACQDLYAWTDGSIQFRNWYVDEPS-----C 116

Db 79 ETVSN-----NRLWIGL-----NDIDLEGHYVWSNGEATDFTYSSNNPNWENQDC 125

QY 117 GSEVCVVMYHQPAPAGIGGPPYMFQWDDRCNMKNFNICK 156

Db 126 G----VNVYDVTVG-----QWDDDDCNKNKNFLCK 151

RESULT 37

S22124

L-selectin precursor - bovine

N;Alternate names: leucocyte cell adhesion molecule 1 (LECAM-1)

C;Species: Bos primigenius taurus (cattle)

C;Date: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 21-Jan-2000

C;Accession: S22124; A46531

R;Bosworth, B.T.

submitted to the EMBL Data Library, October 1991

A;Reference number: S22123

A;Accession: S22124

A;Status: preliminary

A;Molecule type: mRNA

A;Residues: 1-370 <BOS>

A;Cross-references: EMBL:X62882; NID:G515; PIDN:CAA44676.1; PID:G516

R;Walcheck, B.; White, M.; Kurk, S.; Kishimoto, T.K.; Jutila, M.A.

Eur. J. Immunol. 22, 469-476, 1992

A;Title: Characterization of the bovine peripheral lymph node homing receptor: a lectin

A;Reference number: A46531; MUID:92164727; PMID:1371468

A;Accession: A46531

A;Status: preliminary

A;Molecule type: mRNA

A;Residues: 39-79,'Q',81-151,'K' <WAL>

A;Note: sequence inconsistent with the nucleotide translation

A;Note: sequence extracted from NCBI backbone (NCBIN:85686, NCBIIP:85687)

C;Superfamily: L-selectin; C-type lectin homology; complement factor H repeat homology;

F;29-155/Domain: C-type lectin homology <LCH>

F;160-191/Domain: EGF homology <EGF>

F;197-254/Domain: complement factor H repeat homology <FH1>

F;259-316/Domain: complement factor H repeat homology <FH2>

Query Match 12.6%; Score 140; DB 2; Length 370;
Best Local Similarity 25.3%; Pred. No. 9.7e-05;
Matches 46; Conservative 35; Mismatches 57; Indels 44; Gaps 9;

QY 26 FHDTSRRLNFEAEKACRRDGGQLVSIESEDEQKLIETFIENLLP-SDGDFWIGLRRREE 84

Db 41 YHYSKREMPWEKARAFCRENYTDLVAIQNKGE---IE-YLNKTLPFSTRYYWIGIRKVE- 95

QY 85 KQSNSTACQDLYAW--TDGSIS-QFRNWYVDEPS--CGSEVCVVMYHQPAPAGIGGPPY 139

Db 96 -----GWTWVGTNKSLTAEAKNKGAGEPNNRKSKEDCVETIYIKRNKDSG----- 140

QY 140 FQWDDRCNMKNFNICKYDCKPAVPSREAE-----GEETELTTPVLP 182

Db 141 -KWDDACHKAKTALCYTASCCKPWSGSHGQCVEVINNYTCNCDLGLYGPQCQFVTQCVP 199

QY 183 EE 184

Db 200 LE 201

RESULT 38

LNHUPS

pulmonary surfactant protein A precursor (genomic clone) - human

N;Alternate names: alveolar proteinosis protein; pulmonary surfactant 32K apoprotein; pu

C;Species: Homo sapiens (man)

C;Date: 31-Dec-1990 #sequence_revision 31-Dec-1990 #text_change 16-Jul-1999

C;Accession: A24622; A43628

R;White, R.T.; Damm, D.; Miller, J.; Spratt, K.; Schilling, J.; Hawgood, S.; Benson, B.;

Nature 317, 361-363, 1985

A;Title: Isolation and characterization of the human pulmonary surfactant apoprotein gen

A;Reference number: A24622; MUID:86014366; PMID:2995821

A;Accession: A24622

A;Molecule type: DNA

A;Residues: 1-248 <WHI>

A;Cross-references: GB:M30838; NID:G190564; PIDN:AAA36510.1; PID:G190565

A;Note: the sequence in GenBank entry HUMPSAP, release 109.0, (PID:G190565) has the codo

A;Note: four nucleotide differences, producing amino acid differences at positions 45, 5

R;Haagsman, H.P.; White, R.T.; Schilling, J.; Lau, K.; Benson, B.J.; Golden, J.; Hawgood

Am. J. Physiol. 257, L421-L429, 1989

A;Title: Studies of the structure of lung surfactant protein SP-A.

A;Reference number: A43628; MUID:90119861; PMID:2610270

A;Accession: A43628

A;Molecule type: protein

A;Residues: 143-150;220-240;243-248 <HAA>

C;Comment: Pulmonary surfactant is a complex of phospholipids and proteins that lowers t

C;Comment: This protein is a sialoglycoprotein synthesized by alveolar type II cells. It

pendent on the presence of calcium ions.

C;Genetics:

A;Gene: GDB:SFTPA1; SFTP1; SP-A; SP-A1

A;Cross-references: GDB:119593; OMIM:178630

A;Map position: 10q22-10q23

A;Introns: 58/1; 98/1; 124/1

C;Superfamily: mannose-binding lectin; C-type lectin homology

C;Keywords: alveolar proteinosis; calcium; gaseous exchange; glycoprotein; hydroxylysine

F;1-20/Domain: signal sequence #status predicted <SIG>

F;21-248/Product: pulmonary surfactant protein A #status predicted <MAT>

F;28-100/Domain: collagenous #status predicted <COL>

F;127-246/Domain: C-type lectin homology <LCH>

F;26/Disulfide bonds: interchain #status experimental

F;30,33,36,42,57,63,76,79,82,91,97/Modified site: 4-hydroxyproline (pro) #status predict

A;Accession: A46531

A;Status: preliminary

A;Molecule type: mRNA

A;Residues: 39-79,'Q',81-151,'K' <WAL>

A;Note: sequence inconsistent with the nucleotide translation

A;Note: sequence extracted from NCBI backbone (NCBIN:85686, NCBIIP:85687)

C;Superfamily: L-selectin; C-type lectin homology; complement factor H repeat homology;

F;29-155/Domain: C-type lectin homology <LCH>

F;160-191/Domain: EGF homology <EGF>

F;197-254/Domain: complement factor H repeat homology <FH1>

F;259-316/Domain: complement factor H repeat homology <FH2>

Query Match 12.6%; Score 140; DB 2; Length 370;
Best Local Similarity 25.3%; Pred. No. 9.7e-05;
Matches 46; Conservative 35; Mismatches 57; Indels 44; Gaps 9;

QY 26 FHDTSRRLNFEAEKACRRDGGQLVSIESEDEQKLIETFIENLLP-SDGDFWIGLRRREE 84

Db 41 YHYSKREMPWEKARAFCRENYTDLVAIQNKGE---IE-YLNKTLPFSTRYYWIGIRKVE- 95

QY 85 KQSNSTACQDLYAW--TDGSIS-QFRNWYVDEPS--CGSEVCVVMYHQPAPAGIGGPPY 139

Db 96 -----GWTWVGTNKSLTAEAKNKGAGEPNNRKSKEDCVETIYIKRNKDSG----- 140

QY 140 FQWDDRCNMKNFNICKYDCKPAVPSREAE-----GEETELTTPVLP 182

Db 141 -KWDDACHKAKTALCYTASCCKPWSGSHGQCVEVINNYTCNCDLGLYGPQCQFVTQCVP 199

QY 183 EE 184

Db 200 LE 201

RESULT 38

LNHUPS

pulmonary surfactant protein A precursor (genomic clone) - human

N;Alternate names: alveolar proteinosis protein; pulmonary surfactant 32K apoprotein; pu

C;Species: Homo sapiens (man)

C;Date: 31-Dec-1990 #sequence_revision 31-Dec-1990 #text_change 16-Jul-1999

C;Accession: A24622; A43628

R;White, R.T.; Damm, D.; Miller, J.; Spratt, K.; Schilling, J.; Hawgood, S.; Benson, B.;

Nature 317, 361-363, 1985

A;Title: Isolation and characterization of the human pulmonary surfactant apoprotein gen

A;Reference number: A24622; MUID:86014366; PMID:2995821

A;Accession: A24622

A;Molecule type: DNA

A;Residues: 1-248 <WHI>

A;Cross-references: GB:M30838; NID:G190564; PIDN:AAA36510.1; PID:G190565

A;Note: the sequence in GenBank entry HUMPSAP, release 109.0, (PID:G190565) has the codo

A;Note: four nucleotide differences, producing amino acid differences at positions 45, 5

R;Haagsman, H.P.; White, R.T.; Schilling, J.; Lau, K.; Benson, B.J.; Golden, J.; Hawgood

Am. J. Physiol. 257, L421-L429, 1989

A;Title: Studies of the structure of lung surfactant protein SP-A.

A;Reference number: A43628; MUID:90119861; PMID:2610270

A;Accession: A43628

A;Molecule type: protein

A;Residues: 143-150;220-240;243-248 <HAA>

C;Comment: Pulmonary surfactant is a complex of phospholipids and proteins that lowers t

C;Comment: This protein is a sialoglycoprotein synthesized by alveolar type II cells. It

pendent on the presence of calcium ions.

C;Genetics:

A;Gene: GDB:SFTPA1; SFTP1; SP-A; SP-A1

A;Cross-references: GDB:119593; OMIM:178630

A;Map position: 10q22-10q23

A;Introns: 58/1; 98/1; 124/1

C;Superfamily: mannose-binding lectin; C-type lectin homology

C;Keywords: alveolar proteinosis; calcium; gaseous exchange; glycoprotein; hydroxylysine

F;1-20/Domain: signal sequence #status predicted <SIG>

F;21-248/Product: pulmonary surfactant protein A #status predicted <MAT>

F;28-100/Domain: collagenous #status predicted <COL>

F;127-246/Domain: C-type lectin homology <LCH>

F;26/Disulfide bonds: interchain #status experimental

F;30,33,36,42,57,63,76,79,82,91,97/Modified site: 4-hydroxyproline (pro) #status predict

QY 72 -DGFDFWIGLRRREEKQSNSTACQDLVYAWTDGSIQFRNMYVDLP-SCGSEVCVMYHQPS 129
 Db 202 WNDDVWIGLVYQNSK-----WQWTDGSVVYVNWGDGEPNNMKNKEWTALVADPH 251
 QY 130 APAGIGGPMYFQWDDRCNMKNPFICK 156
 Db 252 EGNSEGT---RWNNVPQDDQRAFLCK 275

RESULT 45
 S34198
 IGE Fc receptor II, low-affinity - rat
 N;Alternate names: CD23; lymphocyte IGE receptor
 C;Species: Rattus norvegicus (Norway rat)
 C;Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 22-Jun-1999
 C;Accession: S34198
 R;Flores-Romo, L.; Shield, J.; Humbert, Y.; Graber, P.; Aubry, J.P.; Gauchat, J.F.; Ayala
 submitted to the EMBL Data Library, June 1993
 A;Description: Inhibition of an in vivo antigen-specific IGE response by antibodies to C
 A;Reference number: S34198
 A;Accession: S34198
 A;Molecule type: mRNA
 A;Residues: 1-309 <FLO>
 A;Cross-references: EMBL:X73579; NID:g313672; PIDN:CAA51981.1; PID:g313673
 C;Superfamily: IGE receptor II; C-type lectin homology
 C;Keywords: B-cell; glycoprotein; immunoglobulin receptor; macrophage; tandem repeat; tr
 F;1-25/Domain: intracellular #status predicted <INT>
 F;14-22/Region: stop-transfer sequence
 F;24-46/Domain: transmembrane #status predicted <TMM>
 F;47-309/Domain: extracellular #status predicted <EXT>
 F;126-309/Product: soluble IGE-binding factor (29K) #status predicted <IGI>
 F;149-309/Product: soluble IGE-binding factor (25-27K) #status predicted <8F1>
 F;164-283/Domain: C-type lectin homology <LCH>
 F;192-283,260-274/Disulfide bonds: #status predicted

Query Match 12.3%; Score 137.5; DB 1; Length 309;
 Best Local Similarity 31.1%; Pred. No. 0.00013;
 Matches 46; Conservative 21; Mismatches 38; Indels 43; Gaps 9;
 QY 17 QRCYKVIYFHDTSRLNFEAEKACRRDGGQLVSIIESEDEQKLIKFIENLLP-SDGDFW 76
 Db 172 QQKCY---YFEGGSKQ--WIQAKFTCSDLGRLVSIHSQKEQDFLMQHI-----NKESW 221
 QY 77 IGLRRREEKQSNSTACQDL-----YAWTDGSIQFRNMYVDLPSCG--SEVCVMYHQPS 129
 Db 222 IGL-----QDLNMEGEFVWPDPGSPVGSNNWPNPGEPPNNGGQGEDCVWM----- 263
 QY 130 APAGIGGPMYFQWDDRC-NMKNPFICK 156
 Db 264 --RSGS-----QWDAFCRSYLDWVCE 284

RESULT 46
 JC5377
 L-selectin precursor - hamadryas baboon
 C;Species: Papio hamadryas (hamadryas baboon)
 C;Date: 02-Jun-1997 #sequence_revision 12-Sep-1997 #text_change 21-Jan-2000
 C;Accession: JC5377; PC4315
 R;Tsurushita, N.; Fu, H.; Berg, E.L.
 Gene 181, 219-220, 1996
 A;Title: PCR cloning of the cDNA encoding baboon L-selectin.
 A;Reference number: JC5377; MUID:97128794; PMID:8973334
 A;Accession: JC5377
 A;Molecule type: mRNA
 A;Residues: 1-372 <TSU1>
 A;Cross-references: GB:U52074; NID:g1326148; PIDN:AAB40903.1; PID:g1326149
 A;Accession: PC4315
 A;Molecule type: protein
 A;Residues: 37-43;142-148 <TSU2>
 C;Comment: This receptor is involved in the initial adhesive interaction between lymphoc
 sites of inflammation.
 C;Superfamily: L-selectin; C-type lectin homology; complement factor H repeat homology;

F;1-38/Domain: signal sequence #status predicted <SIG>
 F;29-155/Domain: C-type lectin homology <LCH>
 F;39-372/Product: L-selectin #status predicted <MAT>
 F;39-157/Domain: calcium-binding #status predicted <CAB>
 F;160-191/Domain: EGF homology <EGF>
 F;197-254/Domain: complement factor H repeat homology <FH1>
 F;259-316/Domain: complement factor H repeat homology <FH2>
 F;333-355/Domain: transmembrane #status predicted <TMM>
 F;356-372/Domain: intracellular #status predicted <INT>

Query Match 12.3%; Score 137.5; DB 2; Length 372;
 Best Local Similarity 28.0%; Pred. No. 0.00016;
 Matches 44; Conservative 31; Mismatches 53; Indels 29; Gaps 9;
 QY 26 FHDTSRLNFEAEKACRRDGGQLVSIIESEDEQKLIKFIENLLP-SDGDFWIGLRRREE 84
 Db 41 YHYSEPMNWQKARRFCRENYTDLVAIQNAE---IE-YLEKTLFPFSYVWIGIRK--- 93
 QY 85 QKSNSTACQDLVYAW--TDGSIQ-FRNWYVDEPS--CGSEVCVMYHQPSAPAGIGGPYM 139
 Db 94 -----IGGIWTVVGTNKSILTQEAENWGDGEPNNKNKEDCCEIYIKRKDAG----- 140
 QY 140 FQWDDRCNMKNPFICKYSDEKPAVPSREAEGETEL 176
 Db 141 -KWDDACHKPKAALCYTASCPW--SCSGHGECVEI 174

RESULT 47
 JC4892
 L-selectin precursor - rabbit
 C;Species: Oryctolagus cuniculus (domestic rabbit)
 C;Date: 04-Sep-1998 #sequence_revision 04-Sep-1998 #text_change 21-Jan-2000
 C;Accession: JC4892
 R;Qian, J.; Huang, X.; Marks, R.M.
 Biochem. Biophys. Res. Commun. 225, 406-412, 1996
 A;Title: Cloning of the cDNA for rabbit L-selectin and expression of recombinant protein
 A;Reference number: JC4892; MUID:96354800; PMID:8753776
 A;Accession: JC4892
 A;Status: preliminary
 A;Molecule type: mRNA
 A;Residues: 1-376 <QIA>
 A;Cross-references: GB:U26535; NID:g847787; PIDN:AAA67896.1; PID:g847788
 C;Comment: This protein involved in leukocyte-endothelial adhesion; it mediates adhesion
 C;Superfamily: L-selectin; C-type lectin homology; complement factor H repeat homology;
 F;1-37/Domain: signal sequence #status predicted <SIG>
 F;29-155/Domain: C-type lectin homology <LCH>
 F;38-376/Product: L-selectin #status predicted <MAT>
 F;160-191/Domain: EGF homology <EGF>
 F;197-254/Domain: complement factor H repeat homology <FH1>
 F;259-316/Domain: complement factor H repeat homology <FHR>

Query Match 12.3%; Score 137.5; DB 2; Length 376;
 Best Local Similarity 27.4%; Pred. No. 0.00016;
 Matches 43; Conservative 33; Mismatches 52; Indels 29; Gaps 9;
 QY 26 FHDTSRLNFEAEKACRRDGGQLVSIIESEDEQKLIKFIENLLP-SDGDFWIGLRRREE 84
 Db 41 YHYSEKPMNWERARFCRENYTDLVAIQNKGE---IE-YLEKTLFPFSYVWIGIRK--- 93
 QY 85 QKSNSTACQDLVYAW--TDGSI-SQFRNMYVDEPS--CGSEVCVMYHQPSAPAGIGGPYM 139
 Db 94 -----IGNIWTWVGTNKSILTAEENWGEPEPNNKTKEDCCEIYIKRLRDSG----- 140
 QY 140 FQWDDRCNMKNPFICKYSDEKPAVPSREAEGETEL 176
 Db 141 -KWDDSCQKRKAALCYTASCHPG--SCSGHGECVEV 174

RESULT 48
 I51921
 pulmonary surfactant-associated protein A1 - human
 N;Alternate names: SP-A1
 C;Species: Homo sapiens (man)

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 9, 2004, 22:23:47 ; Search time 23 Seconds
(without alignments)
466.367 Million cell updates/sec

Title: US-09-887-855-2_COPY_22_227
Perfect score: 1115
Sequence: 1 ATGRLLSGQPVCRGGTQPC.....EEDAKTKFKESREALNLAY 206

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 141681 seqs, 52070155 residues

Total number of hits satisfying chosen parameters: 141681

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 50 summaries

Database : SwissProt_42:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB	ID	Description
1	574	51.5	273	1	CHOD_MOUSE	Q9cxm0 mus musculus
2	561.5	50.4	273	1	CHOD_HUMAN	Q9h9p2 homo sapien
3	182	16.3	1456	1	MANR_HUMAN	P22897 homo sapien
4	177	15.9	1268	1	PGCN_MOUSE	P55066 mus musculus
5	176	15.8	1321	1	PGCN_HUMAN	O14594 homo sapien
6	174.5	15.7	3381	1	PGCV_BOVIN	P81282 bos taurus
7	174	15.6	1257	1	PGCN_RAT	P55067 rattus norv
8	174	15.6	2738	1	PGCV_RAT	Q9erb4 rattus norv
9	174	15.6	3358	1	PGCV_MOUSE	Q62059 mus musculus
10	174	15.6	3396	1	PGCV_HUMAN	P13611 homo sapien
11	171	15.3	3562	1	PGCV_CHICK	Q90953 gallus gall
12	165	14.8	643	1	CD93_RAT	Q9et61 rattus norv
13	158.5	14.2	2364	1	PGCA_BOVIN	P13608 bos taurus
14	158.5	14.2	2415	1	PGCA_HUMAN	P16112 homo sapien
15	155.5	13.9	2333	1	PGCA_CANFA	Q28343 canis famil
16	154.5	13.9	612	1	LEM2_MOUSE	Q00690 mus musculus
17	153.5	13.8	644	1	CD93_MOUSE	O89103 mus musculus
18	153.5	13.8	2124	1	PGCA_RAT	P07897 rattus norv
19	152	13.6	912	1	PGCB_BOVIN	Q28062 bos taurus
20	151.5	13.6	652	1	CD93_HUMAN	Q9npy3 homo sapien
21	151	13.5	197	1	CLE1_HUMAN	O75596 homo sapien
22	149	13.4	321	1	FCE2_HUMAN	P06734 homo sapien
23	148.5	13.3	2132	1	PGCA_MOUSE	Q61282 mus musculus
24	147	13.2	883	1	PGCB_MOUSE	Q61361 mus musculus
25	146	13.1	2109	1	PGCA_CHICK	P07898 gallus gall
26	145	13.0	158	1	LECG_TRIST	Q9ygp1 trimeresuru
27	145	13.0	883	1	PGCB_RAT	P55068 rattus norv
28	144.5	13.0	173	1	LEC2_MEGRO	P17346 megabalanus
29	144.5	13.0	372	1	LEM1_RAT	P30836 rattus norv
30	143.5	12.9	372	1	LEM1_MOUSE	P18337 mus musculus
31	141.5	12.7	331	1	FCE2_MOUSE	P20693 mus musculus
32	141.5	12.7	549	1	LEM2_RAT	P98105 rattus norv
33	140.5	12.6	162	1	LEC3_MEGRO	P07439 megabalanus

34	140	12.6	370	1	LEM1_BOVIN	P98131 bos taurus
35	139	12.5	248	1	PSPA_HUMAN	P07714 homo sapien
36	139	12.5	283	1	LECA_SARPE	P05047 sarcophaga
37	138.5	12.4	152	1	IXA_TRIFL	P23806 trimeresuru
38	138.5	12.4	202	1	TETN_MOUSE	P43025 mus musculus
39	137.5	12.3	372	1	LEM1_MACMU	Q95198 macaca mula
40	137.5	12.3	372	1	LEM1_PAPHA	Q28768 papio hamad
41	136	12.2	175	1	LITH_BOVIN	P23132 bos taurus
42	135	12.1	165	1	LIT1_MOUSE	P43137 mus musculus
43	134.5	12.1	132	1	ACAL_ANSAN	P83300 anser anser
44	134.5	12.1	372	1	LEM1_PONPY	Q95235 pongo pygma
45	134.5	12.1	485	1	LEM2_BOVIN	P98107 bos taurus
46	134	12.0	166	1	TETN_CARSP	P26258 carcharhinu
47	133.5	12.0	133	1	ECHA_ECHCA	P81017 echis carin
48	133.5	12.0	311	1	LECI_HUMAN	P07307 homo sapien
49	132.5	11.9	372	1	LEM1_HUMAN	P14151 homo sapien
50	132.5	11.9	372	1	LEM1_PANTR	Q95237 pan troglod

ALIGNMENTS

RESULT 1

CHOD_MOUSE STANDARD; PRT; 273 AA.

AC Q9CXM0; Q8VI31;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Chondrolectin precursor (Transmembrane protein MT75).
GN CHODL.

OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J;
RA Weng L., Smits P., Hubner R., Wouters J., Merregaert J.;
RT "Mt75, a low expressed c-type lectin gene involving in
chondrogenesis.";
RL Submitted (OCT-2000) to the EMBL/GenBank/DBBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Embryonic head;
MEDLINE=21085660; PubMed=11217851;

Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I.,
Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,
Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
Fleischmann W., Gaasterland T., Gissi C., King B., Kochiwa H.,
Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
Schriml L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T.,
Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,
Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,
Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
Gustincich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,
Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,
Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
Suzuki H., Toyooka K., Wang K.H., Weitz C., Whittaker C., Wilming L.,
Wynshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohtsuki S.,
Hayashizaki Y.;
"Functional annotation of a full-length mouse cDNA collection.";
Nature 409:685-690(2001).
-!- SUBCELLULAR LOCATION: Type I membrane protein (Potential).
-!- SIMILARITY: Contains 1 C-type lectin family domain.

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DR HSSP; P22897; 1EGG.
DR Genew; HGNC:17807; CHODL.
DR MIM; 607247; -.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; lectin_c; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LECTIN_1; FALSE_NEG.
DR PROSITE; PS0041; C_TYPE_LECTIN_2; 1.
DR LECTIN; Transmembrane; Glycoprotein; Signal.
FT SIGNAL 1 21
FT CHAIN 22 273
FT DOMAIN 22 216
FT TRANSMEM 217 237
FT DOMAIN 238 273
FT DOMAIN 35 179
FT CARBOHYD 86
SQ SEQUENCE 273 AA; 30431 MW; F4890AAFB572A311 CRC64;

Query Match 50.4%; Score 561.5; DB 1; Length 273;
Best Local Similarity 60.1%; Pred. No. 3.3e-43;
Matches 101; Conservative 25; Mismatches 35; Indels 7; Gaps 3;

Qy 4 RLLSGQPVCRGGTQPCYKVIYFHTSRLNFEFEAKEACRRDGGQLVSISEDEQKLIK 63
Db 23 RVVSGQKVCFAFKPCYKMAVFHELSSRVSFQEARLACESEGGVLLSLENEAEQKLIES 82

Qy 64 FIENLPL-----SDGDFWIGLRRREKQSNSTACQDLVAVTGDGSIQFRNWTYVDEPSCGS 118
Db 83 MLQNLTKPGTGISDGFWIGLWRNGDGT-SGACPDLYQWSDGSNSQYRNWYTDPEPCGS 141

Qy 119 EVCVVMYHQPSAPAGIGGYPFMFQWNRDRCNMKNFICKYSDE-KPAVP 165
Db 142 EKCVVMYHQPTANPGLGGPYLYQWNRDRCNMKNHYICKYEPINPTAP 189

RESULT 3
MANR_HUMAN STANDARD; PRT; 1456 AA.
ID P22897;
DT 01-AUG-1991 (Rel. 19, Created)
DT 01-AUG-1991 (Rel. 19, Last sequence update)
DT 15-MAR-2004 (Rel. 43, Last annotation update)
DE Macrophage mannose receptor precursor (MMR) (CD206 antigen).
GN MRC1.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A., AND PARTIAL SEQUENCE.
RC TISSUE=Placenta;
RX MEDLINE=90324192; PubMed=2373685;
RA Taylor M.E., Conary J.T., Lennartz M.R., Stahl P.D., Drickamer K.;
RT "Primary structure of the mannose receptor contains multiple motifs
RT resembling carbohydrate-recognition domains.";
RL J. Biol. Chem. 265:12156-12162(1990).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=93052405; PubMed=1294118;
RA Kim S.J., Ruiz N., Bezouska K., Drickamer K.;
RT "Organization of the gene encoding the human macrophage mannose
RT receptor (MRC1).";
RL Genomics 14:721-727(1992).
RN [3]
RP STUDIES ON THE BINDING OF INDIVIDUAL LECTIN DOMAINS.
RX MEDLINE=92112893; PubMed=1730714;
RA Taylor M.E., Bezouska K., Drickamer K.;
RT "Contribution to ligand binding by multiple carbohydrate-recognition
RT domains in the macrophage mannose receptor.";
RL J. Biol. Chem. 267:1719-1726(1992).
RN [4]
RP X-RAY CRYSTALLOGRAPHY (2.3 ANGSTROMS) OF 642-788.
RX MEDLINE=20347275; PubMed=10779515;
```

```
RA Feinberg H., Park-Snyder S., Kolatkar A.R., Heise C.T., Taylor M.E.,
RA Weis W.I.;
RT "Structure of a C-type carbohydrate recognition domain from the
RT macrophage mannose receptor.";
RL J. Biol. Chem. 275:21539-21548(2000).
CC -!- FUNCTION: Mediates the endocytosis of glycoproteins by
CC macrophages, in several recognition and uptake processes.
CC -!- SUBCELLULAR LOCATION: Type I membrane protein.
CC -!- MISCELLANEOUS: CRDs 1-3 have at most very weak affinity for
CC carbohydrate. CRD 4 shows the highest affinity binding and has
CC multispecificity for a variety of monosaccharides. At least 3 CRDs
CC (4, 5, and 7) are required for high affinity binding and
CC endocytosis of multivalent glycoconjugates.
CC -!- SIMILARITY: Contains 8 C-type lectin family domains.
CC -!- SIMILARITY: Contains 1 ricin B-type lectin domain.
CC -!- DATABASE: NAME=PROW; NOTE=PROW 2:85-89(2001);
CC WWW="http://www.ncbi.nlm.nih.gov/prow/guide/164341535_g.htm".
CC -----
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
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CC or send an email to license@isb-sib.ch).
CC -----
DR EMBL; J05550; AAA59868.1; -.
DR EMBL; M93221; AAA60389.1; -.
DR EMBL; M93192; AAA60389.1; JOINED.
DR EMBL; M93193; AAA60389.1; JOINED.
DR EMBL; M93194; AAA60389.1; JOINED.
DR EMBL; M93195; AAA60389.1; JOINED.
DR EMBL; M93196; AAA60389.1; JOINED.
DR EMBL; M93197; AAA60389.1; JOINED.
DR EMBL; M93198; AAA60389.1; JOINED.
DR EMBL; M93199; AAA60389.1; JOINED.
DR EMBL; M93200; AAA60389.1; JOINED.
DR EMBL; M93201; AAA60389.1; JOINED.
DR EMBL; M93202; AAA60389.1; JOINED.
DR EMBL; M93203; AAA60389.1; JOINED.
DR EMBL; M93204; AAA60389.1; JOINED.
DR EMBL; M93205; AAA60389.1; JOINED.
DR EMBL; M93206; AAA60389.1; JOINED.
DR EMBL; M93207; AAA60389.1; JOINED.
DR EMBL; M93208; AAA60389.1; JOINED.
DR EMBL; M93209; AAA60389.1; JOINED.
DR EMBL; M93210; AAA60389.1; JOINED.
DR EMBL; M93211; AAA60389.1; JOINED.
DR EMBL; M93212; AAA60389.1; JOINED.
DR EMBL; M93213; AAA60389.1; JOINED.
DR EMBL; M93214; AAA60389.1; JOINED.
DR EMBL; M93215; AAA60389.1; JOINED.
DR EMBL; M93216; AAA60389.1; JOINED.
DR EMBL; M93217; AAA60389.1; JOINED.
DR EMBL; M93218; AAA60389.1; JOINED.
DR EMBL; M93219; AAA60389.1; JOINED.
DR EMBL; M93220; AAA60389.1; JOINED.
DR PIR; A36563; A36563.
DR PDB; 1EGG; 30-AUG-00.
DR PDB; 1EGI; 30-AUG-00.
DR Genew; HGNC:7228; MRC1.
DR MIM; 153618; -.
DR GO; GO:0005887; C:integral to plasma membrane; TAS.
DR GO; GO:0005537; F:mannose binding; TAS.
DR GO; GO:0004872; F:receptor activity; TAS.
DR GO; GO:0006898; P:receptor mediated endocytosis; TAS.
DR InterPro; IPR002353; AntifreezeII.
DR InterPro; IPR000562; FN_Type_II.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR000772; Ricin_B_lectin.
DR InterPro; IPR008997; RicinB_Like.
DR Pfam; PF00040; fn2; 1.
DR Pfam; PF00059; lectin_c; 8.
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DR Pfam; PF00652; Ricin B lectin; 2.
 DR PRINTS; PR00356; ANTIFREEZEII.
 DR PRINTS; PR00013; FNTYPEII.
 DR ProDom; PD000995; FN Type II; 1.
 DR SMART; SM00034; CLECT; 8.
 DR SMART; SM00059; FN2; 1.
 DR SMART; SM00458; RICIN; 1.
 DR PROSITE; PS00615; C TYPE LECTIN 1; 6.
 DR PROSITE; PS50041; C-TYPE LECTIN 2; 8.
 DR PROSITE; PS00023; FIBRONECTIN 2; 1.
 DR PROSITE; PS50231; RICIN B LECTIN; 1.
 KW Receptor; Signal; Calcium-binding; Transmembrane; Repeat;
 KW Glycoprotein; Endocytosis; Macrophage; Lectin; Antigen; 3D-structure.
 FT SIGNAL 1 18
 FT CHAIN 19 1456
 FT DOMAIN 19 1383
 FT TRANSMEM 1384 1411
 FT DOMAIN 1412 1456
 FT DOMAIN 22 142
 FT DOMAIN 157 212
 FT DOMAIN 216 344
 FT DOMAIN 360 490
 FT DOMAIN 502 629
 FT DOMAIN 644 781
 FT DOMAIN 805 926
 FT DOMAIN 943 1083
 FT DOMAIN 1100 1216
 FT DOMAIN 1228 1359
 FT DISULFID 645 659
 FT DISULFID 680 777
 FT DISULFID 753 769
 FT CARBOHYD 104 104
 FT CARBOHYD 344 344
 FT CARBOHYD 529 529
 FT CARBOHYD 926 926
 FT CARBOHYD 930 930
 FT CARBOHYD 1160 1160
 FT CARBOHYD 1205 1205
 FT CARBOHYD 1311 1311
 FT TURN 648 649
 FT STRAND 651 652
 FT TURN 654 655
 FT STRAND 658 663
 FT HELIX 667 669
 FT STRAND 671 671
 FT HELIX 673 683
 FT TURN 684 684
 FT STRAND 686 687
 FT HELIX 693 705
 FT TURN 706 707
 FT TURN 709 710
 FT STRAND 712 718
 FT TURN 723 724
 FT STRAND 727 727
 FT TURN 729 730
 FT STRAND 733 733
 FT TURN 741 742
 FT HELIX 746 748
 FT STRAND 752 757
 FT TURN 758 761
 FT STRAND 764 768
 FT TURN 769 770
 FT STRAND 773 780
 FT TURN 781 782
 SQ SEQUENCE 1456 AA; 166011 MW; 264E5AF3C576A5E3 CRC64;

Query Match 16.3%; Score 182; DB 1; Length 1456;
 Best Local Similarity 25.5%; Pred. No. 3.2e-08;
 Matches 52; Conservative 37; Mismatches 61; Indels 54; Gaps 8;
 QY 21 YKVIYFHDTSRLNFBFAKEACRRDGGQLVSTSEDEQKLEKFIENLLPSDGFWIGLR 80
 Db 807 YKDYQYFSEKKEKTMNARAFCKRNFGLVSTQSESEKKFLWKYV-NRNDASQAYFIGLL 865

QY 81 RREEQSNSTACQDLIAWTGDSISQFRNYYVDEPSCG--EVCVVVYHQPSAPAGIGGPY 138
 Db 866 ISLDKK-----FAWMDGSKVDYVSWATGEPNFANEDENCVTMY-----SNSGF---- 908
 QY 139 MFQWDDRCNMKNMFICKYSDEK---PAVPSREAEGEETELTTPVLPEETQE----- 187
 Db 909 ---WNDINGGYPNAFICQHNSSINATVMP-----TMPSPVSGCKEGWNYFSN 954
 QY 188 -----EDAKKTFKESREAAAL 202
 Db 955 KCFKIFGFMEERKNWQEARAKCI 978
 RESULT 4
 PGCN_MOUSE
 ID PGCN_MOUSE STANDARD; PRT; 1268 AA.
 AC P55066;
 DT 01-OCT-1996 (Rel. 34, Created)
 DT 01-OCT-1996 (Rel. 34, Last sequence update)
 DT 10-OCT-2003 (Rel. 42, Last annotation update)
 DE Neurocan core protein precursor (Chondroitin sulfate proteoglycan 3).
 GN CSPG3 OR NCAN.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=BALB/c; TISSUE=Brain;
 RX MEDLINE=96039250; PubMed=7490074;
 RA Rauch U., Grimpe B., Kulbe G., Arnold-Ammer I., Beier D.,
 RA Faessler R.;
 RT "Structure and chromosomal localization of the mouse neurocan gene.";
 RL Genomics 28:405-410(1995).
 CC -!- FUNCTION: May modulate neuronal adhesion and neurite growth during
 CC development by binding to neural cell adhesion molecules (NG-CAM
 CC and N-CAM). Chondroitin sulfate proteoglycan; binds to hyaluronic
 CC acid.
 CC -!- TISSUE SPECIFICITY: Brain.
 CC -!- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
 CC -!- SIMILARITY: Contains 2 EGF-like domains.
 CC -!- SIMILARITY: Contains 2 link domains.
 CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
 CC -!- SIMILARITY: Contains 1 Sushi (SCR) domain.
 CC -!- SIMILARITY: Belongs to the aggrecan/versican proteoglycan family.
 CC -----
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 CC -----
 DR EMBL; X84727; CAA59216.1; -.
 DR PIR; S52781; S52781.
 DR HSSP; P00740; 1EDM.
 DR MGD; MGI:104694; Cspg3.
 DR InterPro; IPR002353; AntifreezeII.
 DR InterPro; IPR000152; Asx hydroxyl_s.
 DR InterPro; IPR000742; EGF_2.
 DR InterPro; IPR001881; EGF-Ca.
 DR InterPro; IPR006209; EGF-like.
 DR InterPro; IPR007110; Ig-like.
 DR InterPro; IPR003599; Ig.
 DR InterPro; IPR001304; Lectin_C.
 DR InterPro; IPR000538; Link.
 DR InterPro; IPR000436; Sushi_SCR_CCP.
 DR Pfam; PF00008; EGF; 2.
 DR Pfam; PF00047; ig; 1.
 DR Pfam; PF00059; lectin_c; 1.
 DR Pfam; PF00084; sushi; 1.

DR PFam; PF00193; xlink; 2.
DR PRINTS; PR00356; ANTIFREEZEII.
DR PRINTS; PR01265; LINKMODULE.
DR ProDom; PD000918; Link; 2.
DR SMART; SM00032; CCP; 1.
DR SMART; SM00034; CLECT; 1.
DR SMART; SM00409; IG; 1.
DR SMART; SM00179; EGF_CA; 1.
DR SMART; SM00445; LINK; 2.
DR PROSITE; PS00010; ASX_HYDROXYL; 1.
DR PROSITE; PS00615; C_TYPE_LECTIN_1; 1.
DR PROSITE; PS00411; C_TYPE_LECTIN_2; 1.
DR PROSITE; PS00022; EGF_1; 3.
DR PROSITE; PS01186; EGF_2; 1.
DR PROSITE; PS00026; EGF_3; 2.
DR PROSITE; PS01187; EGF_CA; 1.
DR PROSITE; PS00835; IG_LIKE; 1.
DR PROSITE; PS01241; LINK; 2.
KW Glycoprotein; Hyaluronic acid; Proteoglycan; Immunoglobulin domain;
KW EGF-like domain; Calcium; Repeat; Lectin; Sushi; Signal.
FT SIGNAL 1 22
FT CHAIN 23 1268
FT DOMAIN 37 157
FT DOMAIN 158 253
FT DOMAIN 259 355
FT DOMAIN 960 996
FT DOMAIN 998 1034
FT DOMAIN 1036 1165
FT DOMAIN 1166 1224
FT DISULFID 58 139
FT DISULFID 181 252
FT DISULFID 205 226
FT DISULFID 279 354
FT DISULFID 303 324
FT DISULFID 964 975
FT DISULFID 969 984
FT DISULFID 986 995
FT DISULFID 1040 1051
FT DISULFID 1068 1160
FT DISULFID 1136 1152
FT DISULFID 1167 1210
FT DISULFID 1196 1223
FT CARBOHYD 121 121
FT CARBOHYD 339 339
FT CARBOHYD 742 742
FT CARBOHYD 978 978
FT CARBOHYD 1175 1175
SQ SEQUENCE 1268 AA; 137200 MW; 3014E8E202A2FAEC CRC64;

Query Match 15.9%; Score 177; DB 1; Length 1268;
Best Local Similarity 31.5%; Pred. No. 7.6e-08;
Matches 45; Conservative 17; Mismatches 49; Indels 32; Gaps 6;

QY 17 QRPCYKVTYFHDTSRRLNFEAEKACRRDGGQLVSIESEDEQKLEKFIENLLPSDGFW 76
Db 1048 QGHCYR--YF---AHRRAWEDAERDCRRRAGHLTSVHSPEEHKFINSF-----GHENSW 1096
QY 77 IGLRRREEKQSNSTACQDLYAWTDGSIQFRNRYVDEPS---CGSEVCVVMYHQPSPAG 133
Db 1097 IGLNDRTVRD-----FQWTDNTGLQYENWREKQPDNFFAGGEDCVVMVAHESG--- 1145
QY 134 IGGPYMFQWDDRCNMKNFICK 156
Db 1146 -----RWNDVPCNYNLPYVCK 1161

RESULT 5
PGCN_HUMAN STANDARD; PRT; 1321 AA.
AC O14594; Q9UPK6;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)

DE Neurocan core protein precursor (Chondroitin sulfate proteoglycan 3).
GN CSPG3 OR NCAN OR NEUR.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=99013874; PubMed=9795216;
RA Prange C.K., Pennacchio L.A., Lieuallen K., Fan W., Lennon G.G.;
RT "Characterization of the human neurocan gene, CSPG3.";
RL Gene 221:199-205(1998).
RN [2]
RP SEQUENCE OF 1-990 AND 1007-1321 FROM N.A., AND VARIANT ALA-1254.
RA Lamerdin J.E., McCready P.M., Skowronski E., Adamson A.W.,
RA Burkhardt-Schultz K., Gordon L., Kyle A., Ramirez M., Stilwagen S.,
RA Phan H., Velasco N., Do L., Regala W., Terry A., Garnes J.,
RA Danganan L., Poundstone P., Christensen M., Georgescu A., Avila J.,
RA Liu S., Attix C., Andreise T., Trankheim M., Amico-Keller G.,
RA Coefield J., Duarte S., Lucas S., Bruce R., Thomas P., Quan G.,
RA Kronmiller B., Arellano A., Montgomery M., Ow D., Nolan M., Trong S.,
RA Kobayashi A., Olsen A.S., Carrano A.V.;
RT "Sequence analysis of an ~1 Mb region containing the MEF2B gene in
RT 19p12.";
RL Submitted (JUL-1998) to the EMBL/GenBank/DBJ databases.
CC -!- FUNCTION: May modulate neuronal adhesion and neurite growth during
CC development by binding to neural cell adhesion molecules (NG-CAM
CC and N-CAM). Chondroitin sulfate proteoglycan; binds to hyaluronic
CC acid.
CC -!- TISSUE SPECIFICITY: Brain.
CC -!- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
CC -!- SIMILARITY: Contains 2 EGF-like domains.
CC -!- SIMILARITY: Contains 2 link domains.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC -!- SIMILARITY: Contains 1 Sushi (SCR) domain.
CC -!- SIMILARITY: Belongs to the aggrecan/versican proteoglycan family.

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EMBL; AF026547; AAC80576.1; -
EMBL; AC003110; AAB86655.1; -
EMBL; AC005254; AAC25581.1; -
HSSP; P00740; 1EDM.
DR Genew; HGNC:2465; CSPG3.
DR MIM; 600826; -
DR InterPro; IPR000152; Asx_hydroxyl_S.
DR InterPro; IPR000742; EGF_2.
DR InterPro; IPR001881; EGF_Ca.
DR InterPro; IPR006209; EGF_like.
DR InterPro; IPR007110; Ig-Like.
DR InterPro; IPR003599; Ig.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR000538; Link.
DR InterPro; IPR000436; Sushi_SCR_CCP.
DR Pfam; PF00008; EGF; 2.
DR Pfam; PF00047; ig; 1.
DR Pfam; PF00059; lectin_c; 1.
DR Pfam; PF00084; sushi; 1.
DR Pfam; PF00193; xlink; 2.
DR PRINTS; PR01265; LINKMODULE.
DR ProDom; PD000918; Link; 2.
DR SMART; SM00032; CCP; 1.
DR SMART; SM00034; CLECT; 1.
DR SMART; SM00179; EGF_CA; 1.
DR SMART; SM00409; IG; 1.
DR SMART; SM00445; LINK; 2.
DR PROSITE; PS00010; ASX_HYDROXYL; 1.

DR PROSITE; PS00615; C_TYPE LECTIN 1; 1.
 DR PROSITE; PS00041; C_TYPE LECTIN_2; 1.
 DR PROSITE; PS00022; EGF 1; 3.
 DR PROSITE; PS01186; EGF_2; 1.
 DR PROSITE; PS00026; EGF 3; 2.
 DR PROSITE; PS01187; EGF_CA; 1.
 DR PROSITE; PS00835; IG_LIKE; 1.
 DR PROSITE; PS01241; LINK; 2.
 KW Glycoprotein; Hyaluronic acid; Proteoglycan; Immunoglobulin domain;
 KW EGF-like domain; Calcium; Repeat; Lectin; Sushi; Signal; Polymorphism.
 FT SIGNAL 1 22
 FT CHAIN 23 1321
 FT DOMAIN 38 153
 FT DOMAIN 159 254
 FT DOMAIN 260 356
 FT DOMAIN 1008 1044
 FT DOMAIN 1046 1082
 FT DOMAIN 1084 1213
 FT DOMAIN 1214 1272
 FT DISULFID 59 140
 FT DISULFID 182 253
 FT DISULFID 206 227
 FT DISULFID 280 355
 FT DISULFID 304 325
 FT DISULFID 1012 1023
 FT DISULFID 1017 1032
 FT DISULFID 1034 1043
 FT DISULFID 1088 1099
 FT DISULFID 1116 1208
 FT DISULFID 1184 1200
 FT DISULFID 1215 1258
 FT DISULFID 1244 1271
 FT CARBOHYD 122 122
 FT CARBOHYD 340 340
 FT CARBOHYD 1026 1026
 FT CARBOHYD 1223 1223
 FT VARIANT 1254 1254
 FT CONFLICT 1234 1234
 FT CONFLICT 1282 1282
 FT SEQUENCE 1321 AA; 142972 MW; 2EF47F823DB980B8 CRC64;
 Query Match 15.8%; Score 176; DB 1; Length 1321;
 Best Local Similarity 31.5%; Pred. No. 9.9e-08;
 Matches 45; Conservative 18; Mismatches 48; Indels 32; Gaps 6;
 QY 17 QRPCKVIYFHTSRRLNFEFAKEACRRDGGQLVSISEDEQKLEKFIENLLPSDGF 76
 Db 1096 QGHYR--YF---AHRRAWEDAEDKRRRSGLTSVHSPEHSFNSF-----GHENTW 1144
 QY 77 IGLRRREKQSNSTACQDLYAWTDGSIQFRNRYVDEPS---CGSEVCVMYHQPSAPAG 133
 Db 1145 IGLNDRIVERD-----PQWTDNTGLQFNWRENQPDNFFAGGEDCVMVAHESG--- 1193
 QY 134 IGGPYMFQWDDRCNMKNPFICK 156
 Db 1194 -----RWNDVPCNLPYVCK 1209

RESULT 6

PGCV_BOVIN

ID_PGCV_BOVIN STANDARD; PRT; 3381 AA.
 AC P81282; 077609; 077610; 077611; 077612;
 DT 15-DEC-1998 (Rel. 37, Created)
 DT 16-OCT-2001 (Rel. 40, Last sequence update)
 DT 10-OCT-2003 (Rel. 42, Last annotation update)
 DE versican core protein precursor (Large fibroblast proteoglycan)
 DE (Chondroitin sulfate proteoglycan core protein 2) (PG-M) (Glial
 DE hyaluronate-binding protein) (GHAP).
 GN CPSG2.
 OS Bos taurus (Bovine).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovoidea;

OC Bovidae; Bovinae; Bos.
 OX NCBI_TaxID=9913;
 RN [1]
 RP SEQUENCE FROM N.A. (ISOFORMS VO; V1; V2 AND V3).
 RC TISSUE=Forebrain;
 RX MEDLINE=98288320; PubMed=9624174;
 RA Schmalfeldt M., Dours-Zimmermann M.T., Winterhalter K.H.,
 RA Zimmermann D.R.;
 RT "Versican V2 is a major extracellular matrix component of the mature
 RT bovine brain.";
 RL J. Biol. Chem. 273:15758-15764(1998).
 RN [2]
 RP SEQUENCE OF 21-53; 78-96; 226-250; 262-277; 295-306; 314-324; 329-331
 RP AND 342-348.
 RC TISSUE=Spinal cord;
 RX MEDLINE=92062692; PubMed=1720020;
 RA Perides G., Biviano F., Bignami A.;
 RT "Interaction of a brain extracellular matrix protein with hyaluronic
 RT acid.";
 RL Biochim. Biophys. Acta 1075:248-258(1991).
 CC -!- FUNCTION: May play a role in intercellular signaling and in
 CC connecting cells with the extracellular matrix. May take part in
 CC the regulation of cell motility, growth and differentiation. Binds
 CC hyaluronic acid.
 CC -!- SUBUNIT: Interacts with PBLN1 (By similarity).
 CC -!- SUBCELLULAR LOCATION: Secreted; extracellular matrix.
 CC -!- ALTERNATIVE PRODUCTS:
 CC Event=Alternative splicing; Named isoforms=4;
 CC Comment=Additional isoforms seem to exist;
 CC Name=V0;
 CC IsoId=P81282-1; Sequence=Displayed;
 CC Name=V1;
 CC IsoId=P81282-2; Sequence=VSP_003078, VSP_003079;
 CC Name=V2;
 CC IsoId=P81282-3; Sequence=VSP_003080;
 CC Name=V3;
 CC IsoId=P81282-4; Sequence=VSP_003078, VSP_003081;
 CC TISSUE SPECIFICITY: Cerebral white matter. V0 and V1 are expressed
 CC in the central nervous system, and in a number of mesenchymal and
 CC epithelial tissues; the major isoform V2 is restricted to the
 CC central nervous system.
 CC -!- DEVELOPMENTAL STAGE: Disappears after the cartilage development
 CC (By similarity).
 CC -!- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
 CC -!- SIMILARITY: Contains 2 link domains.
 CC -!- SIMILARITY: Contains 2 EGF-like domains.
 CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
 CC -!- SIMILARITY: Contains 1 Sushi (SCR) domain.
 CC -!- SIMILARITY: Belongs to the aggrecan/versican proteoglycan family.
 CC -----
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 CC -----
 CC EMBL; AF060456; AAC24358.1; -.
 CC EMBL; AF060457; AAC24359.1; -.
 CC EMBL; AF060458; AAC24360.1; -.
 CC EMBL; AF060459; AAC24361.1; -.
 CC PIR; T14274; T14274.
 CC PIR; T42389; T42389.
 CC HSSP; P01132; 1EPG.
 CC InterPro; IPR000152; Asx_hydroxyl_s.
 CC InterPro; IPR000742; EGF_2.
 CC InterPro; IPR001881; EGF_Ca.
 CC InterPro; IPR006209; EGF_like.
 CC InterPro; IPR007110; Ig-like.
 CC InterPro; IPR003599; Ig.
 CC InterPro; IPR001304; Lectin_C.
 CC InterPro; IPR000538; Link.

DR InterPro; IPR000436; Sushi_SCR_CCP.
DR Pfam; PF00008; EGF; 2.
DR Pfam; PF00047; Ig; 1.
DR Pfam; PF00059; lectin_c; 1.
DR Pfam; PF00084; sushi; 1.
DR Pfam; PF00193; Xlink; 2.
DR PRINTS; PR01265; LINKMODULE.
DR ProDom; PD000918; Link; 2.
DR SMART; SM00032; CCP; 1.
DR SMART; SM00034; CLECT; 1.
DR SMART; SM00179; EGF_CA; 1.
DR SMART; SM00409; IG; 1.
DR SMART; SM00445; LINK; 2.
DR PROSITE; PS00010; ASX_HYDROXYL; 1.
DR PROSITE; PS00615; C_TYPE_LECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LECTIN_2; 1.
DR PROSITE; PS00022; EGF_1; 2.
DR PROSITE; PS01186; EGF_2; 1.
DR PROSITE; PS50026; EGF_3; 2.
DR PROSITE; PS01187; EGF_CA; 1.
DR PROSITE; PS50835; IG_LIKE; 1.
DR PROSITE; PS01241; LINK; 2.
KW Glycoprotein; Proteoglycan; Lectin; Extracellular matrix; Sushi;
KW Signal; Repeat; EGF-like domain; Calcium; Immunoglobulin domain;
KW Hyaluronic acid; Alternative splicing.
FT SIGNAL 1 20
FT CHAIN 21 3381
FT DOMAIN 21 147
FT DOMAIN 158 245
FT DOMAIN 266 347
FT DOMAIN 349 1336
FT DOMAIN 1337 3074
FT DOMAIN 3074 3110
FT DOMAIN 3112 3148
FT DOMAIN 3161 3275
FT DOMAIN 3280 3338
FT DISULFID 44 131
FT DISULFID 173 244
FT DISULFID 197 218
FT DISULFID 271 346
FT DISULFID 295 316
FT DISULFID 3078 3089
FT DISULFID 3083 3098
FT DISULFID 3100 3109
FT DISULFID 3116 3127
FT DISULFID 3121 3136
FT DISULFID 3138 3147
FT DISULFID 3154 3165
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FT DISULFID 3250 3266
FT DISULFID 3281 3324
FT DISULFID 3310 3337
FT CARBOHYD 57 57
FT CARBOHYD 331 331
FT CARBOHYD 352 352
FT CARBOHYD 817 817
FT CARBOHYD 965 965
FT CARBOHYD 1017 1017
FT CARBOHYD 1333 1333
FT CARBOHYD 1393 1393
FT CARBOHYD 1437 1437
FT CARBOHYD 1463 1463
FT CARBOHYD 1653 1653
FT CARBOHYD 1974 1974
FT CARBOHYD 2045 2045
FT CARBOHYD 2074 2074
FT CARBOHYD 2103 2103
FT CARBOHYD 2263 2263
FT CARBOHYD 2290 2290
FT CARBOHYD 2356 2356
FT CARBOHYD 2623 2623
FT CARBOHYD 2641 2641

FT CARBOHYD 2919 2919 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 3052 3052 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 3354 3354 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 3364 3364 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT VARSPLIC 349 349 P -> R (in isoform V1 and isoform V3).
FT VARSPLIC 350 1336 /FTID=VSP 003078.
FT VARSPLIC 1337 3074 Missing (in isoform V1).
FT VARSPLIC 350 3074 /FTID=VSP 003079.
FT VARSPLIC 1337 3074 Missing (in isoform V2).
FT VARSPLIC 350 3074 /FTID=VSP 003080.
FT CONFLICT 25 25 Missing (in isoform V3).
FT CONFLICT 51 51 /FTID=VSP 003081.
FT CONFLICT 89 89 MISSING (IN REF. 2).
FT CONFLICT 96 96 N -> D (IN REF. 2).
FT CONFLICT 346 346 Q -> D (IN REF. 2).
FT CONFLICT 3381 AA; 369984 MW; P09716FA7778D459 CRC64; C -> R (IN REF. 2).
SQ SEQUENCE 3381 AA; 369984 MW; P09716FA7778D459 CRC64;
Query Match 15.7%; Score 174.5; DB 1; Length 3381;
Best local Similarity 25.5%; Pred. No. 4.3e-07;
Matches 59; Conservative 26; Mismatches 71; Indels 75; Gaps 11;
QY 17 QRPCYKVIYFHTSRRLNFEAEKACRRDGGQLVLSIESEDEOKLIEKFLENLLPSDGD- 75
Db 3162 QGQCYK--YF---AHRRTWDAARECELRQGAHLTSLSHEEQMFVNRV-----GHDIQ 3209
QY 76 WIGLRRREKQSNSTACQDLYATDGSISQFRNWWYDEP----SCGSEVCVVMYHQPSP 131
Db 3210 WIGL-----NDKMFHDFRWDGTLQYENWRPNQPDSPFSTGDCVVIWHENG-- 3259
QY 132 AGIGGPFQWNDRCNMKNFICKYS----DEKPAVPSREAEGE----- 172
Db 3260 -----QWNVPCNYHLTYTCKKGTVACGQPPVENAKTFGKMKPRYEINSLIRYHC 3310
QY 173 -----ETELTT-----PVL-----PEETQEDAKKTFKESREAAALN 203
Db 3311 KDGFIQRHLPTIRCLNGRWAMPKITCLNPSAYQRTYKKYFKNSSSSAKDN 3361
RESULT 7
PGCN_RAT STANDARD; PRT; 1257 AA.
AC P55067;
DT 01-OCT-1996 (Rel. 34, Created)
DT 01-OCT-1996 (Rel. 34, Last sequence update)
DT 15-MAR-2004 (Rel. 43, Last annotation update)
DE Neurocan core protein precursor (Chondroitin sulfate proteoglycan 3)
DE (245 kDa early postnatal core glycoprotein) [Contains: 150 kDa adult
DE core glycoprotein].
GN CSPG3 OR NCAN.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A., AND PARTIAL SEQUENCE.
RC STRAIN=Sprague-Dawley; TISSUE=Brain;
RX MEDLINE=92406907; PubMed=1326557;
RA Rauch U., Karthikeyan L., Maurel P., Margolis R.U., Margolis R.K.;
RT "Cloning and primary structure of neurocan, a developmentally
RT regulated, aggregating chondroitin sulfate proteoglycan of brain.";
RL J. Biol. Chem. 267:19536-19547(1992).
RN [2]
RP CHARACTERIZATION.
RX MEDLINE=94230574; PubMed=7513709;
RA Friedlander D.R., Millev P., Karthikeyan L., Margolis R.K.,
RA Margolis R.U., Grumet M.;
RT "The neuronal chondroitin sulfate proteoglycan neurocan binds to the
RT neural cell adhesion molecules Ng-CAM/11/NILE and N-CAM, and inhibits
RT neuronal adhesion and neurite outgrowth.";
RL J. Cell Biol. 125:669-680(1994).
CC -!- FUNCTION: May modulate neuronal adhesion and neurite growth during

RC TISSUE=Kidney;
RX MEDLINE=98094159; PubMed=9434070;
RA Pyke C., Kristensen P., Ostergaard P.B., Oturai P.S., Romer J.;
RT "Proteoglycan expression in the normal rat kidney."
RL Nephron 77:461-470(1997).
RN [4]
RP SEQUENCE OF 2535-2738 FROM N.A.
RC STRAIN=Sprague-Dawley; TISSUE=Lung;
RA Blomberg L.A., Chan W.-Y., Clerch L., Massaro D.;
RT "Molecular cloning and characterization of two developmentally
regulated genes in rat lung";
RL Submitted (SEP-2000) to the EMBL/GenBank/DBJ databases.
CC -!- FUNCTION: May play a role in intercellular signaling and in
CC connecting cells with the extracellular matrix. May take part in
CC the regulation of cell motility, growth and differentiation. Binds
CC hyaluronic acid.
CC -!- SUBUNIT: Interacts with FBLN1 (By similarity).
CC -!- SUBCELLULAR LOCATION: Secreted; extracellular matrix.
CC -!- ALTERNATIVE PRODUCTS:
CC Event=Alternative splicing; Named isoforms=3;
CC Comment=Additional isoforms seem to exist;
CC Name=V0;
CC IsoId=Q9ERB4-1; Sequence=Displayed;
CC Name=V3;
CC IsoId=Q9ERB4-2; Sequence=VSP_003091;
CC Name=Vint;
CC IsoId=Q9ERB4-3; Sequence=VSP_003092;
CC -!- TISSUE SPECIFICITY: In kidney is expressed in the papillary area,
CC but not in glomeruli.
CC -!- DEVELOPMENTAL STAGE: Disappears after the cartilage development
CC (By similarity).
CC -!- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
CC -!- SIMILARITY: Contains 2 link domains.
CC -!- SIMILARITY: Contains 2 EGF-like domains.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC -!- SIMILARITY: Contains 1 Sushi (SCR) domain.
CC -!- SIMILARITY: Belongs to the aggrecan/versican proteoglycan family.
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CC -----
DR EMBL; AF062402; AAC40166.1; -.
DR EMBL; U75306; AAB51125.1; -.
DR EMBL; AF084544; AAD48544.1; -.
DR EMBL; AF072892; AAC26116.1; -.
DR EMBL; AY007691; AAG16631.1; -.
DR HSSP; P01132; IEPG.
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DR InterPro; IPR000742; EGF_2.
DR InterPro; IPR001881; EGF_Ca.
DR InterPro; IPR006209; EGF_like.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003599; Ig.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR000538; Link.
DR InterPro; IPR000436; Sushi_SCR_CCP.
DR PRINTS; PR01265; LINKMODULE.
DR ProDom; PD000918; Link; 2.
DR SMART; SM00032; CCP; 1.
DR SMART; SM00034; CLECT; 1.
DR SMART; SM00179; EGF_CA; 1.
DR SMART; SM00409; IG; 1.
DR SMART; SM00445; LINK; 2.
DR PROSITE; PS00010; ASX_HYDROXYL; 1.
DR PROSITE; PS00615; C_TYPE_LECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LECTIN_2; 1.
DR PROSITE; PS00022; EGF_1; 2.
DR PROSITE; PS01186; EGF_2; 1.

DR PROSITE; PS50026; EGF_3; 2.
DR PROSITE; PS01187; EGF_CA; 1.
DR PROSITE; PS50835; IG LIKE; 1.
DR PROSITE; PS01241; LINK; 2.
KW Glycoprotein; Proteoglycan; Lectin; Extracellular matrix; Sushi;
KW Signal; Repeat; EGF-like domain; Calcium; Immunoglobulin domain;
KW Hyaluronic acid; Alternative splicing.
FT SIGNAL 1 20
FT CHAIN 21 2738
FT NON_CONS 348 349
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FT DOMAIN 2637 2695
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FT CARBOHYD 802 802
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FT CARBOHYD 1257 1257
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FT VARSPLIC 2697 2738
FT CONFLICT 2535 2539
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R -> RKWSFRKNGQPCFNKY (in isoform Vint).
/FTId=VSP_003092.
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R -> RKWSFRKNGQPCFNKY (in isoform Vint).
/FTId=VSP_003091.
Missing (in isoform V3).
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R -> RKWSFRKNGQPCFNKY (in isoform Vint).
/FTId=VSP_003091.
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R -> RKWSFRKNGQPCFNKY (in isoform Vint).
/FTId=VSP_003091.
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R -> RKWSFRKNGQPCFNKY (in isoform Vint).
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R -> RKWSFRKNGQPCFNKY (in isoform Vint).
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R -> RKWSFRKNGQPCFNKY (in isoform Vint).
/FTId=VSP_003092.
AEREC -> NSARG (IN REF. 4).
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R -> RKWSFRKNGQPCFNKY (in isoform Vint).
/FTId=VSP_003091.
Missing (in isoform V3).
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R -> RKWSFRKNGQPCFNKY (in isoform Vint).
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R -> RKWSFRKNGQPCFNKY (in isoform Vint).
/FTId=VSP_003091.
Missing (in isoform V3).
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R -> RKWSFRKNGQPCFNKY (in isoform Vint).
/FTId=VSP_003092.
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R -> RKWSFRKNGQPCFNKY (in isoform Vint).
/FTId=VSP_003091.
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/FTId=VSP_003092.
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R -> RKWSFRKNGQPCFNKY (in isoform Vint).
/FTId=VSP_003091.
Missing (in isoform V3).
PSAYQRTYSKKYLNSSSVKDNSTNTSKHEHRWSRRWQETR
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/FTId=VSP_003092.
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/FTId=VSP_003091.
Missing (in isoform V3).
PSAYQRTYSKKYLNSSSVKDNSTNTSKHEHRWSRRWQETR
R -> RKWSFRKNGQPCFNKY (in isoform Vint).
/FTId=VSP_003092.
AEREC -> NSARG (IN REF. 4).
PSAYQRTYSKKYLNSSSVKDNSTNTSKHEHRWSRRWQETR
R -> RKWSFRKNGQPCFNKY (in isoform Vint).
/FTId=VSP_003091.
Missing (in isoform V3).
PSAYQRTYSKKYLNSSSVKDNSTNTSKHEHRWSRRWQETR
R -> RKWSFRKNGQPCFNKY (in isoform Vint).
/FTId=VSP_003092.
AEREC -> NSARG (IN REF. 4).
PSAYQRTYSKKYLNSSSVKDNSTNTSKHEHRWSRRWQETR
R -> RKWSFRKNGQPCFNKY (in isoform Vint).
/FTId=VSP_003091.
Missing (in isoform V3).
PSAYQRTYSKKYLNSSSVKDNSTNTSKHEHRWSRRWQETR
R -> RKWSFRKNGQPCFNKY (in isoform Vint).
/FTId=VSP_003092.
AEREC -> NSARG (IN REF. 4).
PSAYQRTYSKKYLNSSSVKDNSTNTSKHEHRWSRRWQETR
R -> RKWSFRKNGQPCFNKY (in isoform Vint).
/FTId=VSP_003091.
Missing (in isoform V3).
PSAYQRTYSKKYLNSSSVKDNSTNTSKHEHRWSRRWQETR
R -> RKWSFRKNGQPCFNKY (in isoform Vint).
/FTId=VSP_003092.
AEREC -> NSARG (IN REF. 4).
PSAYQRTYSKKYLNSSSVKDNSTNTSKHEHRWSRRWQETR
R -> RKWSFRKNGQPCFNKY (in isoform Vint).
/FTId=VSP_003091.
Missing (in isoform V3).
PSAYQRTYSKKYLNSSSVKDNSTNTSKHEHRWSRRWQETR
R -> RKWSFRKNGQPCFNKY (in isoform Vint).
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QY	132	AGIGGPFYMFQWDDRCNMKNFNICKYS----	DEKPAVPSREAGE	172	RT	"Fibulin-1 is a ligand for the C-type lectin domains of aggrecan and versican.";
Db	2617	-----QWNVPCNYHLYTCKGTACGQPPVVENAKTFGK	2652	RT	J. Biol. Chem. 274:20444-20449(1999).	
RESULT 9				CC	-!- FUNCTION: May play a role in intercellular signaling and in connecting cells with the extracellular matrix. May take part in the regulation of cell motility, growth and differentiation. Binds hyaluronic acid.	
PGCV_MOUSE				CC	-!- SUBUNIT: Interacts with FBLN1.	
ID	PGCV_MOUSE	STANDARD;	PRT;	3358	AA.	
AC	Q62059;	Q62058;	Q9CUU0;			
DT	01-NOV-1997	(Rel. 35, Created)				
DT	01-NOV-1997	(Rel. 35, Last sequence update)				
DT	15-MAR-2004	(Rel. 43, Last annotation update)				
DE	Versican core protein precursor (Large fibroblast proteoglycan)					
DE	(Chondroitin sulfate proteoglycan core protein 2) (PG-M).					
GN	CSPG2.					
OS	Mus musculus (Mouse).					
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;					
OC	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.					
OX	NCBI_TaxID=10090;					
RN	[1]					
RP	SEQUENCE FROM N.A. (ISOFORMS V0; V1 AND V2).					
RC	STRAIN=C57BL/6, and Swiss Webster; TISSUE=Brain;					
RX	MEDLINE=95122551; PubMed=7822336;					
RA	Ito K., Shinomura T., Zako M., Ujita M., Kimata K.;					
RT	"Multiple forms of mouse PG-M, a large chondroitin sulfate proteoglycan generated by alternative splicing."					
RL	J. Biol. Chem. 270:958-965(1995).					
RN	[2]					
RP	SEQUENCE FROM N.A. (ISOFORM V3).					
RC	STRAIN=C57BL/6;					
RX	MEDLINE=95181355; PubMed=7876137;					
RA	Zako M., Shinomura T., Ujita M., Ito K., Kimata K.;					
RT	"Expression of PG-M(V3), an alternatively spliced form of PG-M without a chondroitin sulfate attachment in region in mouse and human tissues."					
RL	J. Biol. Chem. 270:3914-3918(1995).					
RN	[3]					
RP	SEQUENCE OF 1-1692 FROM N.A. (ISOFORM V1).					
RC	STRAIN=C57BL/6J; TISSUE=Skin;					
RX	MEDLINE=22354683; PubMed=12466851;					
RA	Okazaki Y., Furuno M., Kasukawa T., Adachi J., Bono H., Kondo S.,					
RA	Nikaido I., Osato N., Saito R., Suzuki H., Yamanaka I., Kiyosawa H.,					
RA	Yagi K., Tomaru Y., Hasegawa Y., Nogami A., Schonbach C., Gojobori T.,					
RA	Baldarelli R., Hill D.P., Bult C., Hume D.A., Quackenbush J.,					
RA	Schriml L.M., Kanapin A., Matsuda H., Batalov S., Beisel K.W.,					
RA	Blake J.A., Bradt D., Brusci V., Chothia C., Corbani L.E., Cousins S.,					
RA	Dalla E., Dragani T.A., Fletcher C.F., Forrest A., Frazer K.S.,					
RA	Gaasterland T., Gariboldi M., Gissi C., Godzik A., Gough J.,					
RA	Grimmond S., Gustincich S., Hirokawa N., Jackson I.J., Jarvis E.D.,					
RA	Kanai A., Kawaji H., Kawasaki Y., Kedzierski R.M., King B.L.,					
RA	Konagaya A., Kurochkin I.V., Lee Y., Lenhard B., Lyons P.A.,					
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RA	Nagashima T., Numata K., Okido T., Pavan W.J., Pertea G., Pesole G.,					
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RA	Ravasi T., Reed J.C., Reed D.J., Reid J., Ring B.Z., Ringwald M.,					
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RA	Sultana R., Takenaka Y., Taylor M.S., Teasdale R.D., Tomita M.,					
RA	Verardo R., Wagner L., Wahlestedt C., Wang Y., Watanabe Y., Wells C.,					
RA	Wilming L.G., Wynshaw-Boris A., Yanagisawa M., Yang I., Yang L.,					
RA	Yuan Z., Zavolan M., Zhu Y., Zimmer A., Carninci P., Hayatsu N.,					
RA	Hirozane-Kishikawa T., Konno H., Nakamura M., Sakazume N., Sato K.,					
RA	Shiraki T., Waki K., Kawai J., Aizawa K., Arakawa T., Fukuda S.,					
RA	Hara A., Hashizume W., Imotani K., Ishii Y., Itoh M., Kagawa I.,					
RA	Miyazaki A., Sakai K., Sasaki D., Shibata K., Shinagawa A.,					
RA	Yasunishi A., Yoshino M., Waterston R., Lander E.S., Rogers J.,					
RA	Birney E., Hayashizaki Y.;					
RT	"Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs."					
RL	Nature 420:563-573(2002).					
RN	[4]					
RP	INTERACTION WITH FBLN1.					
RX	MEDLINE=99329059; PubMed=10400671;					
RA	Aspberg A., Adam S., Kostka G., Timpl R., Heinegaard D.;					
DR	EMBL;	D16263;	BAA03796.1;	-		
DR	EMBL;	D28599;	-;	NOT ANNOTATED_CDS.		
DR	EMBL;	D32040;	BAA06802.1;	-		
DR	EMBL;	AK014525;	BAB29411.2;	-		
DR	HSSP;	P01132;	1EPG.			
DR	MGD;	MGI:102889;	Cspg2.			
DR	InterPro;	IPR000152;	Asx_hydroxyl_s.			
DR	InterPro;	IPR000742;	EGF_2.			
DR	InterPro;	IPR001881;	EGF_Ca.			
DR	InterPro;	IPR006209;	EGF_like.			
DR	InterPro;	IPR007110;	Ig-like.			
DR	InterPro;	IPR003599;	Ig.			
DR	InterPro;	IPR001304;	Lectin_C.			
DR	InterPro;	IPR000538;	Link.			
DR	InterPro;	IPR000436;	Sushi_SCR_CCP.			
DR	Pfam;	PF00008;	EGF; 2.			
DR	Pfam;	PF00047;	ig; 1.			
DR	Pfam;	PF00059;	lectin_c; 1.			
DR	Pfam;	PF00084;	sushi; 1.			
DR	Pfam;	PF00193;	Xlink; 2.			
DR	PRINTS;	PR01265;	LINKMODULE.			
DR	ProDom;	PD000918;	Link; 2.			
DR	SMART;	SM00032;	CCP; 1.			
DR	SMART;	SM00034;	CLECT; 1.			
DR	SMART;	SM00179;	EGF_CA; 1.			
DR	SMART;	SM00409;	IG; 1.			
DR	SMART;	SM00445;	LINK; 2.			
DR	PROSITE;	PS00010;	ASX_HYDROXYL; 1.			
DR	PROSITE;	PS00615;	C_TYPE_LLECTIN_1; 1.			
DR	PROSITE;	PS00041;	C_TYPE_LLECTIN_2; 1.			
DR	PROSITE;	PS00022;	EGF_1; 2.			
DR	PROSITE;	PS01186;	EGF_2; 1.			
DR	PROSITE;	PS50026;	EGF_3; 2.			
DR	PROSITE;	PS01187;	EGF_CA; 1.			
DR	PROSITE;	PS50835;	IG_LIKE; 1.			
DR	PROSITE;	PS01241;	LINK; 2.			

KW	Glycoprotein; Proteoglycan; Lectin; Extracellular matrix; Sushi;	
KW	Signal; Repeat; EGF-like domain; Calcium; Immunoglobulin domain;	
KW	Hyaluronic acid; Alternative splicing.	
FT	SIGNAL	1 20
FT	CHAIN	21 3358
FT	DOMAIN	21 146
FT	DOMAIN	167 244
FT	DOMAIN	265 346
FT	DOMAIN	348 1308
FT	DOMAIN	1309 3052
FT	DOMAIN	3052 3088
FT	DOMAIN	3090 3126
FT	DOMAIN	3139 3253
FT	DOMAIN	3258 3316
FT	DISULFID	44 130
FT	DISULFID	172 243
FT	DISULFID	196 217
FT	DISULFID	270 333
FT	DISULFID	294 315
FT	DISULFID	3056 3067
FT	DISULFID	3061 3076
FT	DISULFID	3078 3087
FT	DISULFID	3094 3105
FT	DISULFID	3099 3114
FT	DISULFID	3116 3125
FT	DISULFID	3132 3143
FT	DISULFID	3160 3252
FT	DISULFID	3228 3244
FT	DISULFID	3259 3302
FT	DISULFID	3288 3315
FT	CARBOHYD	57 57
FT	CARBOHYD	330 330
FT	CARBOHYD	351 351
FT	CARBOHYD	441 441
FT	CARBOHYD	807 807
FT	CARBOHYD	914 914
FT	CARBOHYD	951 951
FT	CARBOHYD	1305 1305
FT	CARBOHYD	1372 1372
FT	CARBOHYD	1679 1679
FT	CARBOHYD	2054 2054
FT	CARBOHYD	2244 2244
FT	CARBOHYD	2362 2362
FT	CARBOHYD	2627 2627
FT	CARBOHYD	3030 3030
FT	CARBOHYD	3332 3332
FT	CARBOHYD	3342 3342
FT	CARBOHYD	348 348
FT	VARSPPLIC	349 1308
FT	VARSPPLIC	1309 3052
FT	VARSPPLIC	349 3052
FT	CONFLICT	126 126
FT	CONFLICT	348 348
FT	CONFLICT	1658 1658
FT	CONFLICT	1674 1680
FT	CONFLICT	3358 AA; 366938 MW; 071B80026BC0762D CRC64;
SQ	SEQUENCE	15.6%; Score 174; DB 1; Length 3358;
	Query Match	Best Local Similarity 28.5%; Pred. No. 4.7e-07;
	Matches	47; Conservative 23; Mismatches 55; Indels 40; Gaps 8;
QY	17	QRPCYKVIYFHDTSRRLNFEAEKACRRDGGQQLVSIIESEDEQXLEKFIENLLPSDGF- 75
Db	3140	QGQCYK--YF---AHRRTWDAARECRQGAHLTSILSHEEQMFVNRV-----GHDYQ 3187
QY	76	WIGLRREEKQNSSTACQDLYAWTDGSIQFRNYYVDEP-----SCGSEVCVMYHQPSAP 131
Db	3188	WIGL-----NDKMFEDHFRWTDGSAIQYENWRPNQPDSPFSAGDCVVIWHENG-- 3237

QY	132	AGIGGPFYMFQWDDRCNMKNKFNICKYS---DEKPAVPSRAEAGE 172
Db	3238	-----QWNDVPCNVHLYTCKKGTACGQPPVVENAKTFGK 3273
	RESULT 10	
	PGCV_HUMAN	
ID	PGCV_HUMAN	STANDARD; PRT; 3396 AA.
AC	P13611; P20754; Q13010; Q13189; Q15123; Q9UNW5;	
DT	01-JAN-1990 (Rel. 13, Created)	
DT	01-NOV-1997 (Rel. 35, Last sequence update)	
DT	10-OCT-2003 (Rel. 42, Last annotation update)	
DE	Versican core protein precursor (Large fibroblast proteoglycan)	
DE	(Chondroitin sulfate proteoglycan core protein 2) (PG-M) (Glial	
DE	hyaluronate-binding protein) (GHAP).	
GN	CSPG2.	
OS	Homo sapiens (Human).	
OC	Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;	
OC	Mammalia; Euthera; Primates; Catarrhini; Homnidae; Homo.	
OX	NCBI_TaxID=9606;	
RN	[1]	
RP	SEQUENCE FROM N.A. (ISOFORM V0).	
RX	MEDLINE=95105188; PubMed=7528742;	
RA	Naso M.F., Zimmermann D.R., Iozzo R.V.;	
RT	"Characterization of the complete genomic structure of the human	
RT	versican gene and functional analysis of its promoter.";	
RL	J. Biol. Chem. 269:32999-33008(1994).	
RN	[2]	
RP	SEQUENCE FROM N.A. (ISOFORM V1).	
RC	TISSUE=Placenta;	
RX	MEDLINE=90059882; PubMed=2583089;	
RA	Zimmermann D.R., Ruoslahti E.;	
RT	"Multiple domains of the large fibroblast proteoglycan, versican.";	
RL	EMBO J. 8:2975-2981(1989).	
RN	[3]	
RP	SEQUENCE FROM N.A. (ISOFORM V2).	
RC	TISSUE=Glial tumor;	
RX	MEDLINE=95105187; PubMed=7806529;	
RA	Dours-Zimmermann M.T., Zimmermann D.R.;	
RT	"A novel glycosaminoglycan attachment domain identified in two	
RT	alternative splice variants of human versican.";	
RL	J. Biol. Chem. 269:32992-32998(1994).	
RN	[4]	
RP	SEQUENCE OF 2711-3396 FROM N.A.	
RC	TISSUE=Lung fibroblast;	
RX	MEDLINE=88007514; PubMed=2820964;	
RA	Krusius T., Gehlsen K.R., Ruoslahti E.;	
RT	"A fibroblast chondroitin sulfate proteoglycan core protein contains	
RT	lectin-like and growth factor-like sequences.";	
RL	J. Biol. Chem. 262:13120-13125(1987).	
RN	[5]	
RP	SEQUENCE OF 251-347 FROM N.A.	
RX	MEDLINE=93122792; PubMed=1478664;	
RA	Iozzo R.V., Naso M.F., Cannizzaro L.A., Wasmuth J.J.,	
RA	McPherson J.D.;	
RT	"Mapping of the versican proteoglycan gene (CSPG2) to the long arm of	
RT	human chromosome 5 (5q12-5q14).";	
RL	Genomics 14:845-851(1992).	
RN	[6]	
RP	SEQUENCE FROM N.A. (ISOFORM V3).	
RC	TISSUE=Brain;	
RX	MEDLINE=95181355; PubMed=7876137;	
RA	Zako M., Shinomura T., Ujita M., Ito K., Kimata K.;	
RT	"Expression of PG-M(V3), an alternatively spliced form of PG-M	
RT	without a chondroitin sulfate attachment in region in mouse and human	
RT	tissues.";	
RL	J. Biol. Chem. 270:3914-3918(1995).	
RN	[7]	
RP	SEQUENCE OF 3333-3396 FROM N.A. (ISOFORM VINT).	
RC	TISSUE=Aortic smooth muscle;	
RX	MEDLINE=99327053; PubMed=10397680;	
RA	Lemire J.M., Braun K.R., Maurel P., Kaplan E.D., Schwartz S.M.,	

Db 3225 WIGL-----NDRMFEHDFRWTGDTLQYENWRPNQDPDSFFSAGEDCVIIWHENG-- 3274

QY 132 AGIGGPFYMFQWDDRCNMKNFICKYS-----DEKPAVPSREAGE 172

Db 3275 -----QWNDVPCNYHLTYTCKKGTVACGQPPVVENAKTFGK 3310

RESULT 11

PGCV CHICK STANDARD; PRT; 3562 AA.

AC Q90953; Q90945;

DT 01-NOV-1997 (Rel. 35, Created)

DT 01-NOV-1997 (Rel. 35, Last sequence update)

DT 10-OCT-2003 (Rel. 42, Last annotation update)

DE Versican core protein precursor (Large fibroblast proteoglycan)

DE (Chondroitin sulfate proteoglycan core protein 2) (PG-M).

GN CPSG2.

OS Gallus gallus (Chicken).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;

OC Gallus.

OX NCBI_TaxID=9031;

RN [1]

RP SEQUENCE FROM N.A. (ISOFORMS V0 AND V1).

RC STRAIN=White leghorn; TISSUE=Limb bud;

RX MEDLINE=93300846; PubMed=8314802;

RA Shinomura T., Nishida Y., Ito K., Kimata K.;

RT "cDNA cloning of PG-M, a large chondroitin sulfate proteoglycan

RT expressed during chondrogenesis in chick limb buds. Alternative

RT spliced multiforms of PG-M and their relationships to versican.";

RL J. Biol. Chem. 268:14461-14469(1993).

CC -!- FUNCTION: May play a role in intercellular signaling and in

CC connecting cells with the extracellular matrix. May take part in

CC the regulation of cell motility, growth and differentiation. Binds

CC hyaluronic acid.

CC -!- SUBCELLULAR LOCATION: Secreted; extracellular matrix.

CC -!- ALTERNATIVE PRODUCTS:

CC Event=Alternative splicing; Named isoforms=2;

CC Comment=Additional isoforms seem to exist;

CC Name=V0;

CC IsoId=Q90953-1; Sequence=Displayed;

CC Name=V1;

CC IsoId=Q90953-2; Sequence=VSP_003093;

CC -!- TISSUE SPECIFICITY: Prechondrogenic condensation area of

CC developing limb buds.

CC -!- DEVELOPMENTAL STAGE: Disappears after the cartilage development

CC (By similarity).

CC -!- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.

CC -!- SIMILARITY: Contains 2 link domains.

CC -!- SIMILARITY: Contains 2 EGF-like domains.

CC -!- SIMILARITY: Contains 1 C-type lectin family domain.

CC -!- SIMILARITY: Contains 1 Sushi (SCR) domain.

CC -----

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CC modified and this statement is not removed. Usage by and for commercial

CC entities requires a license agreement (See <http://www.isb-sib.ch/announce/>

CC or send an email to license@isb-sib.ch).

CC -----

CC EMBL; X60226; CAA42787.1; -.

CC EMBL; D13542; BAA02742.1; -.

CC PIR; A47171; A47171.

CC HSSP; P00740; 1EDM.

CC InterPro; IPR000152; Asx hydroxyl_s.

CC InterPro; IPR000742; EGF_2.

CC InterPro; IPR001881; EGF_Ca.

CC InterPro; IPR006209; EGF-like.

CC InterPro; IPR007110; Ig-like.

CC InterPro; IPR003599; Ig.

CC InterPro; IPR001304; Lectin_C.

CC InterPro; IPR000538; Link.

DR InterPro; IPR000436; Sushi_SCR_CCP.

DR Pfam; PF00008; EGF; 2.

DR Pfam; PF00047; ig; 1.

DR Pfam; PF00059; lectin_c; 1.

DR Pfam; PF00084; sushi; 1.

DR Pfam; PF00193; xlink; 2.

DR PRINTS; PR01265; LINKMODULE.

DR ProDom; PD000918; Link; 2.

DR SMART; SM00032; CCP; 1.

DR SMART; SM00034; CLECT; 1.

DR SMART; SM00179; EGF_CA; 1.

DR SMART; SM00409; IG; 1.

DR SMART; SM00445; LINK; 2.

DR PROSITE; PS00010; ASX HYDROXYL; 1.

DR PROSITE; PS00615; C_TYPE_LECTIN_1; 1.

DR PROSITE; PS50041; C_TYPE_LECTIN_2; 1.

DR PROSITE; PS00022; EGF_1; 2.

DR PROSITE; PS01186; EGF_2; 1.

DR PROSITE; PS50026; EGF_3; 2.

DR PROSITE; PS01187; EGF_CA; 1.

DR PROSITE; PS50835; IG_LIKE; 1.

DR PROSITE; PS01241; LINK; 2.

KW Glycoprotein; Proteoglycan; Lectin; Extracellular matrix; Sushi;

KW Signal; Repeat; EGF-like domain; Calcium; Immunoglobulin domain;

KW Hyaluronic acid; Alternative splicing.

FT SIGNAL 1 26 VERSICAN CORE PROTEIN.

FT CHAIN 27 3562 IG-LIKE V-TYPE.

FT DOMAIN 27 143 LINK 1.

FT DOMAIN 166 243 LINK 2.

FT DOMAIN 264 345 EGF-LIKE 1.

FT DOMAIN 3254 3290 EGF-LIKE 2.

FT DOMAIN 3292 3328 C-TYPE LECTIN.

FT DOMAIN 3341 3455 SUSHI.

FT DOMAIN 3460 3518 BY SIMILARITY.

FT DISULFID 44 129 BY SIMILARITY.

FT DISULFID 171 242 BY SIMILARITY.

FT DISULFID 195 216 BY SIMILARITY.

FT DISULFID 269 344 BY SIMILARITY.

FT DISULFID 293 314 BY SIMILARITY.

FT DISULFID 3258 3269 BY SIMILARITY.

FT DISULFID 3263 3278 BY SIMILARITY.

FT DISULFID 3280 3289 BY SIMILARITY.

FT DISULFID 3296 3307 BY SIMILARITY.

FT DISULFID 3301 3316 BY SIMILARITY.

FT DISULFID 3318 3327 BY SIMILARITY.

FT DISULFID 3334 3345 BY SIMILARITY.

FT DISULFID 3362 3454 BY SIMILARITY.

FT DISULFID 3430 3446 BY SIMILARITY.

FT DISULFID 3461 3504 BY SIMILARITY.

FT DISULFID 3490 3517 BY SIMILARITY.

FT CARBOHYD 163 163 N-LINKED (GLCNAC. . .)

FT CARBOHYD 235 235 N-LINKED (GLCNAC. . .)

FT CARBOHYD 329 329 N-LINKED (GLCNAC. . .)

FT CARBOHYD 529 529 N-LINKED (GLCNAC. . .)

FT CARBOHYD 709 709 N-LINKED (GLCNAC. . .)

FT CARBOHYD 948 948 N-LINKED (GLCNAC. . .)

FT CARBOHYD 1409 1409 N-LINKED (GLCNAC. . .)

FT CARBOHYD 1479 1479 N-LINKED (GLCNAC. . .)

FT CARBOHYD 1523 1523 N-LINKED (GLCNAC. . .)

FT CARBOHYD 1530 1530 N-LINKED (GLCNAC. . .)

FT CARBOHYD 1625 1625 N-LINKED (GLCNAC. . .)

FT CARBOHYD 1751 1751 N-LINKED (GLCNAC. . .)

FT CARBOHYD 1988 1988 N-LINKED (GLCNAC. . .)

FT CARBOHYD 2088 2088 N-LINKED (GLCNAC. . .)

FT CARBOHYD 2089 2089 N-LINKED (GLCNAC. . .)

FT CARBOHYD 2507 2507 N-LINKED (GLCNAC. . .)

FT CARBOHYD 2642 2642 N-LINKED (GLCNAC. . .)

FT CARBOHYD 2679 2679 N-LINKED (GLCNAC. . .)

FT CARBOHYD 2748 2748 N-LINKED (GLCNAC. . .)

FT CARBOHYD 2762 2762 N-LINKED (GLCNAC. . .)

FT CARBOHYD 3069 3069 N-LINKED (GLCNAC. . .)

FT CARBOHYD 3194 3194 N-LINKED (GLCNAC. . .)

FT CARBOHYD 3232 3232 N-LINKED (GLCNAC. . .)

```
FT CARBOHYD 3545 3545 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT VARSPLIC 485 1411 Missing (in isoform V1).
FT /FTID=VSP 003093.
SQ SEQUENCE 3562 AA; 388078 MW; 9BC566E88C1602D2 CRC64;

Query Match
Best Local Similarity 28.5%; Score 171; DB 1; Length 3562;
Matches 47; Conservative 23; Mismatches 55; Indels 40; Gaps 8;

QY 17 QRPCYKVIYFHDTSRLNFEAEACRRDGGQLVSIQFNRWYVDEP----SCGSEVCVVMYHQPSAP 131
Db 3342 QGQCYK--YF---AHRRTWDTABRECRLOGAHLTSLSHSEEQVFNRI-----GHDYQ 3389

QY 76 WIGLRRREKQSNSTACQDLVWTDGSGISQFNRWYVDEP----SCGSEVCVVMYHQPSAP 131
Db 3390 WIGL-----NDKMFDRFRTWTDGSGPLQYENWRPNQDFFSAGEDCVVIWHENG-- 3439

QY 132 AGIGPYMFQWDDRCNMKNPFICKYS----DEKPAVPSREAEGE 172
Db 3440 -----QWNVPCNYHLTYTCKKGTACGQPPVVENAKTFGK 3475

RESULT 12
CD93 RAT
ID CD93_RAT STANDARD; PRT; 643 AA.
AC Q9ET61; Q9JIZ6;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Complement component C1q receptor precursor (Complement component 1, q
DE subcomponent, receptor 1) (C1qR) (C1qR(p)) (C1q/MBL/SPA receptor)
DE (CD93 antigen) (Cell surface antigen AA4).
GN C1QR1 OR CD93 OR C1QRP.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=PVG; TISSUE=Natural killer cells;
RX MEDLINE=20545218; PubMed=11093152;
RA Lovik G., Vaage J.T., Dissen E., Szpirer C., Ryan J.C., Rolstad B.;
RT "Characterization and molecular cloning of rat C1qR, a receptor on NK
RT cells.";
RL Eur. J. Immunol. 30:3355-3362(2000).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=Wistar; TISSUE=Lung;
RX MEDLINE=20507883; PubMed=10934210;
RA Dean Y.D., McGreal E.P., Akatsu H., Gasque P.;
RT "Molecular and cellular properties of the rat AA4 antigen, a C-type
RT lectin-like receptor with structural homology to thrombomodulin.";
RL J. Biol. Chem. 275:34382-34392(2000).
CC -!- FUNCTION: Receptor (or element of a larger receptor complex) for
CC C1q, mannose-binding lectin (MBL2) and pulmonary surfactant
CC protein A (SPA). May mediate the enhancement of phagocytosis in
CC monocytes and macrophages upon interaction with soluble defense
CC collagens. May play a role in intercellular adhesion.
CC -!- SUBCELLULAR LOCATION: Type I membrane protein.
CC -!- TISSUE SPECIFICITY: Widely expressed. Highly expressed in lung and
CC heart. Expressed at lower level in brain, thymus, liver, spleen,
CC intestine, kidney, adrenal gland, muscle and testis. Expressed on
CC endothelial cells, platelets, undifferentiated monocytes and
CC circulating natural killer cells.
CC -!- PTM: N- and O-glycosylated (By similarity).
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC -!- SIMILARITY: Contains 5 EGF-like domains.
CC -----
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CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
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QY 154 ICKYSDEKPAVPSREAEGETELTTP 179
Db 178 LCKPFFKMGCSPLALGGPGQLTYTTP 203

RESULT 13
PGCA_BOVIN
ID PGCA_BOVIN STANDARD; PRT; 2364 AA.
AC P13608; P79117; Q28159;
DT 01-JAN-1990 (Rel. 13, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 15-MAR-2004 (Rel. 43, Last annotation update)
DE Aggrecan core protein precursor (Cartilage-specific proteoglycan core
protein) (CSPCP).
GN AGC1.
OS Bos taurus (Bovine).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
OC Bovidae; Bovinae; Bos.
OX NCBI_TaxID=9913;
RN [1]
RP SEQUENCE FROM N.A.
RA Hering T.M., Kollar J., Huynh T.D.;
RL Submitted (SEP-1996) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE OF 563-1056 FROM N.A.
RX MEDLINE=89380219; PubMed=2528543;
RA Antonsson P., Heinegaard D., Oldberg A.;
RT "The keratan sulfate-enriched region of bovine cartilage proteoglycan
RT consists of a consecutively repeated hexapeptide motif.";
RL J. Biol. Chem. 264:16170-16173(1989).
RN [3]
RP SEQUENCE OF 1609-2113 AND 2151-2364 FROM N.A.
RX MEDLINE=87270630; PubMed=3111460;
RA Oldberg A., Antonsson P., Heinegaard D.;
RT "The partial amino acid sequence of bovine cartilage proteoglycan,
RT deduced from a cDNA clone, contains numerous Ser-Gly sequences
RT arranged in homologous repeats.";
RL Biochem. J. 243:255-259(1987).
RN [4]
RP SEQUENCE OF 2114-2150 FROM N.A.
RC TISSUE=Cartilage;
RX MEDLINE=93352525; PubMed=8349621;
RA Fuelleop C., Walcz E., Valyon M., Glant T.T.;
RT "Expression of alternatively spliced epidermal growth factor-like
RT domains in aggrecans of different species. Evidence for a novel
RT module.";
RL J. Biol. Chem. 268:17377-17383(1993).
RN [5]
RP PARTIAL SEQUENCE.
RX MEDLINE=85027710; PubMed=6489519;
RA Perin J.-P., Bonnet F., Jolles J., Jolles P.;
RT "Sequence data concerning the protein core of the cartilage
RT proteoglycan monomers. Characterization of a sequence allowing the
RT synthesis of an oligonucleotide probe.";
RL FEBS Lett. 176:37-42(1984).
RN [6]
RP PARTIAL SEQUENCE.
RX MEDLINE=87005253; PubMed=3530809;
RA Perin J.-P., Bonnet F., Jolles P.;
RT "Structural relationship between link proteins and proteoglycan
RT monomers.";
RL FEBS Lett. 206:73-77(1986).
CC -!- FUNCTION: This proteoglycan is a major component of extracellular
CC matrix of cartilaginous tissues. A major function of this protein
CC is to resist compression in cartilage. It binds avidly to
CC hyaluronic acid via an amino-terminal globular region. May play a
CC regulatory role in the matrix assembly of the cartilage.
CC -!- SUBCELLULAR LOCATION: Secreted; extracellular matrix (By
CC similarity).
CC -!- ALTERNATIVE PRODUCTS:
CC Event-Alternative splicing; Named isoforms=2;
```


DR	InterPro; IPR007110; Ig-like.	FT	CARBOHYD	602	602	N-LINKED (GLCNAC. . .) (POTENTIAL).
DR	InterPro; IPR003599; Ig.	FT	CARBOHYD	657	657	N-LINKED (GLCNAC. . .) (POTENTIAL).
DR	InterPro; IPR003006; Ig_MHC.	FT	CARBOHYD	737	737	N-LINKED (GLCNAC. . .) (POTENTIAL).
DR	InterPro; IPR001304; Lectin_C.	FT	CARBOHYD	1898	1898	N-LINKED (GLCNAC. . .) (POTENTIAL).
DR	InterPro; IPR000538; Link.	FT	VARSPLIC	2163	2200	Missing (in isoform 2 and isoform 3).
DR	InterPro; IPR003324; SGXSG.	FT	VARSPLIC	2330	2390	/FTid=VSP_003074.
DR	InterPro; IPR000436; Sushi_SCR_CCP.	FT	VARSPLIC	2330	2390	Missing (in isoform 3).
DR	Pfam; PF00008; EGF; 1.	FT	CONFLICT	766	766	E -> A (IN REF. 4).
DR	Pfam; PF00047; ig; 1.	FT	CONFLICT	847	847	E -> V (IN REF. 4).
DR	Pfam; PF00059; lectin_c; 1.	FT	CONFLICT	1928	1928	E -> A (IN REF. 2).
DR	Pfam; PF02339; SGXSG; 71.	FT	CONFLICT	1964	1964	I -> V (IN REF. 2 AND 3).
DR	Pfam; PF00084; sushi; 1.	FT	CONFLICT	2070	2070	P -> A (IN REF. 3).
DR	Pfam; PF00193; Xlink; 4.	FT	CONFLICT	2391	2391	A -> P (IN REF. 2 AND 3).
DR	PRINTS; PR01265; LINKMODULE.	FT	CONFLICT	2415	2415	AA; 250191 MW; 1288937E1B98C6B6 CRC64;
DR	ProDom; PD000918; Link; 4.	SQ	SEQUENCE	2415	2415	AA; 250191 MW; 1288937E1B98C6B6 CRC64;
DR	SMART; SM00032; CCP; 1.					
DR	SMART; SM00034; CLECT; 1.					
DR	SMART; SM00181; EGF; 1.					
DR	SMART; SM00409; IG; 1.					
DR	SMART; SM00445; LINK; 4.					
DR	PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.	QY	9 QPVCRGG---TORPCYKVIYFHDTSRRLNFEAEACRRDGGQLVLSIESEDEOKLIEKFI	65		
DR	PROSITE; PS00041; C_TYPE_LLECTIN_2; 1.	Db	2202 QEVCEEGNKKYQGHCYR---HFPD---RETWVDAERRCREQQSHLSSIVTPEEQ---	2252		
DR	PROSITE; PS00022; EGF_1; 1.	QY	66 ENLLPSDQDF-WIGLRRREKQSNSTACQDLYAWTDGSIQFRNRYVDEPS---	121		
DR	PROSITE; PS01186; EGF_2; 1.	Db	2253 NN---NAQDYQWIGL-----NDRTIEGDFRWSGDGHPMQFENWRPNQPDNFFAAGEDC	2301		
DR	PROSITE; PS00026; EGF_3; 1.	QY	122 VVM-YHQPSAPAGIGGPMYFMQWDDRCNKNKNFICKYS-----DEKPAVPSREAEETE	175		
DR	PROSITE; PS00835; IG_LIKE; 1.	Db	2302 VVMWHEKG-----EWNDVPCNYHLPTCKKGTACGEPVVEHARTFGQKGD	2349		
DR	PROSITE; PS00290; IG_MHC; 1.					
DR	PROSITE; PS01241; LINK; 3.					
KW	Glycoprotein; Proteoglycan; Lectin; Signal; Sushi; EGF-like domain;					
KW	Alternative splicing; Repeat; Immunoglobulin domain.					
FT	SIGNAL	1				
FT	CHAIN	20				
FT	DOMAIN	34				
FT	DOMAIN	170				
FT	DOMAIN	268				
FT	DOMAIN	495				
FT	DOMAIN	593				
FT	DOMAIN	2164				
FT	DOMAIN	2201				
FT	DOMAIN	2331				
FT	DOMAIN	48				
FT	DOMAIN	152				
FT	DOMAIN	253				
FT	DOMAIN	477				
FT	DOMAIN	578				
FT	DOMAIN	676				
FT	DOMAIN	772				
FT	DOMAIN	851				
FT	DOMAIN	941				
FT	DOMAIN	1498				
FT	DOMAIN	2163				
FT	DISULFID	51				
FT	DISULFID	175				
FT	DISULFID	199				
FT	DISULFID	273				
FT	DISULFID	297				
FT	DISULFID	500				
FT	DISULFID	524				
FT	DISULFID	598				
FT	DISULFID	621				
FT	DISULFID	2168				
FT	DISULFID	2173				
FT	DISULFID	2189				
FT	DISULFID	2205				
FT	DISULFID	2233				
FT	DISULFID	2301				
FT	DISULFID	2332				
FT	DISULFID	2361				
FT	CARBOHYD	126				
FT	CARBOHYD	239				
FT	CARBOHYD	333				
FT	CARBOHYD	387				
FT	CARBOHYD	434				

RESULT 15
PGCA_CANFA STANDARD; PRT; 2333 AA.
ID Q28343; Q28310;
DT 01-NOV-1997 (Rel. 35, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 15-MAR-2004 (Rel. 43, Last annotation update)
DE AggreCan core protein precursor (Cartilage-specific proteoglycan core protein) (GSPCP).
GN AGC1.
OS Canis familiaris (Dog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.
OC NCBI_TaxID=9615;
RN [1]
RP SEQUENCE FROM N.A.
RA Glant T.T., Adams M.E., Kwok S.X.F., Huang D., Fuloop C.;
RT "Complete coding sequence and deduced amino acid sequence of aggreCan of canine cartilage."
RT Submitted (APR-2000) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE OF 774-833 FROM N.A.
RC TISSUE=Cartilage;
RX MEDLINE=95128522; PubMed=7827755;
RA Barry F.P., Neame P.J., Sasse J., Pearson D.;
RT "Length variation in the keratan sulfate domain of mammalian aggreCan."
RT Matrix Biol. 14:323-328(1994).
RN [3]
RP SEQUENCE OF 1830-2333 FROM N.A.
RA Adams M.E., Kwok S.X.F., Huang D., Glant T.T., Fuloop C.;
RL Submitted (AUG-1996) to the EMBL/GenBank/DBJ databases.
RN [4]
RP SEQUENCE OF 2082-2118 FROM N.A.
RC TISSUE=Cartilage;
RX MEDLINE=93352525; PubMed=8349621;
RA Fuloop C., Walcz E., Valyon M., Glant T.T.;
RT "Expression of alternatively spliced epidermal growth factor-like domains in aggreCan of different species. Evidence for a novel module."
RT

RL J. Biol. Chem. 268:17377-17383(1993).

CC -!- FUNCTION: This proteoglycan is a major component of extracellular

CC matrix of cartilaginous tissues. A major function of this protein

CC is to resist compression in cartilage. It binds avidly to

CC hyaluronic acid via an amino-terminal globular region. May play a

CC regulatory role in the matrix assembly of the cartilage.

CC -!- SUBCELLULAR LOCATION: Secreted; extracellular matrix (By

CC similarity).

CC -!- DOMAIN: Two globular domains, G1 and G2, comprise the amino

CC terminus of the proteoglycan, while another globular region, G3,

CC makes up the COOH terminus. G1 contains link domains and thus

CC consists of three disulfide-bonded loop structures designated as

CC the A, B, B' motifs. G2 is similar to G1. The keratan sulfate (KS)

CC and the chondroitin sulfate (CS) attachment domains lie between G2

CC and G3.

CC -!- PTM: Contains mostly chondroitin sulfate, but also keratan sulfate

CC chains, N-linked and O-linked oligosaccharides (By similarity).

CC -!- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.

CC -!- SIMILARITY: Contains 4 link domains.

CC -!- SIMILARITY: Contains 1 C-type lectin family domain.

CC -!- SIMILARITY: Contains 1 Sushi (SCR) domain.

CC -!- SIMILARITY: Contains 1 EGF-like domain.

CC -!- SIMILARITY: Belongs to the aggrecan/versican proteoglycan family.

CC

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CC or send an email to license@isb-sib.ch).

CC

CC -----

CC EMBL; U65989; AAB06238.2; -

CC EMBL; S74662; AAC60527.1; -

CC EMBL; L07054; -; NOT_ANNOTATED_CDS.

CC PIR; I46998; I46998.

CC HSSP; P08709; 1BF9.

CC InterPro; IPR002353; AntifreezeII.

CC InterPro; IPR000152; Asx_hydroxyl_S.

CC InterPro; IPR000742; EGF_2.

CC InterPro; IPR001881; EGF_Ca.

CC InterPro; IPR006209; EGF-like.

CC InterPro; IPR007110; Ig-like.

CC InterPro; IPR003006; Ig_MHC.

CC InterPro; IPR001304; Lectin_C.

CC InterPro; IPR000538; Link.

CC InterPro; IPR003324; SGXSG.

CC InterPro; IPR000436; Sushi_SCR_CCP.

CC Pfam; PF00008; EGF; 1.

CC Pfam; PF00047; ig; 1.

CC Pfam; PF00059; lectin_c; 1.

CC Pfam; PF02339; SGXSG; 66.

CC Pfam; PF00084; sushi; 1.

CC Pfam; PF00193; Xlink; 4.

CC PRINTS; PR00356; ANTIFREEZEII.

CC PRINTS; PR01265; LINKMODULE.

CC ProDom; PD000918; Link; 4.

CC SMART; SM00032; CCP; 1.

CC SMART; SM00034; CLECT; 1.

CC SMART; SM00179; EGF_CA; 1.

CC SMART; SM00445; LINK; 4.

CC PROSITE; PS00010; ASX_HYDROXYL; 1.

CC PROSITE; PS00615; C_TYPE_LECTIN_1; 1.

CC PROSITE; PS50041; C_TYPE_LECTIN_2; 1.

CC PROSITE; PS00022; EGF_1; 1.

CC PROSITE; PS00026; EGF_3; 1.

CC PROSITE; PS01187; EGF_CA; 1.

CC PROSITE; PS50835; IG_LINK; 1.

CC PROSITE; PS00290; IG_MHC; 1.

CC PROSITE; PS01241; LINK; 4.

CC Glycoprotein; Proteoglycan; Lectin; Signal; Sushi; EGF-like domain;

CC Repeat; Immunoglobulin domain.

CC SIGNAL 1 16 POTENTIAL.

FT CHAIN 17 2333 AGGREGAN CORE PROTEIN.

FT DOMAIN 34 147 IG-LIKE V-TYPE.

FT DOMAIN 170 247 LINK 1.

FT DOMAIN 268 349 LINK 2.

FT DOMAIN 513 590 LINK 3.

FT DOMAIN 611 692 LINK 4.

FT DOMAIN 2081 2117 EGF-LIKE, CALCIUM-BINDING (POTENTIAL).

FT DOMAIN 2130 2245 C-TYPE LECTIN.

FT DOMAIN 2249 2307 SUSHI.

FT DOMAIN 48 140 G1-A.

FT DOMAIN 152 247 G1-B.

FT DOMAIN 253 349 G1-B'.

FT DOMAIN 495 589 G2-B.

FT DOMAIN 596 691 G2-B'.

FT DOMAIN 694 816 KS.

FT DOMAIN 819 1394 CS-1.

FT DOMAIN 1395 2079 CS-2.

FT DOMAIN 2080 2333 G3.

FT DISULFID 51 133 BY SIMILARITY.

FT DISULFID 175 246 BY SIMILARITY.

FT DISULFID 199 220 BY SIMILARITY.

FT DISULFID 273 348 BY SIMILARITY.

FT DISULFID 297 318 BY SIMILARITY.

FT DISULFID 518 589 BY SIMILARITY.

FT DISULFID 542 563 BY SIMILARITY.

FT DISULFID 616 691 BY SIMILARITY.

FT DISULFID 640 661 BY SIMILARITY.

FT DISULFID 2085 2096 BY SIMILARITY.

FT DISULFID 2090 2105 BY SIMILARITY.

FT DISULFID 2107 2116 BY SIMILARITY.

FT DISULFID 2123 2134 BY SIMILARITY.

FT DISULFID 2151 2243 BY SIMILARITY.

FT DISULFID 2219 2235 BY SIMILARITY.

FT DISULFID 2250 2293 BY SIMILARITY.

FT DISULFID 2279 2306 BY SIMILARITY.

FT CARBOHYD 126 126 N-LINKED (GLCNAC. .) (POTENTIAL)..

FT CARBOHYD 239 239 N-LINKED (GLCNAC. .) (POTENTIAL).

FT CARBOHYD 333 333 N-LINKED (GLCNAC. .) (POTENTIAL).

FT CARBOHYD 387 387 N-LINKED (GLCNAC. .) (POTENTIAL).

FT CARBOHYD 444 444 N-LINKED (GLCNAC. .) (POTENTIAL).

FT CARBOHYD 620 620 N-LINKED (GLCNAC. .) (POTENTIAL).

FT CARBOHYD 676 676 N-LINKED (GLCNAC. .) (POTENTIAL).

FT CARBOHYD 747 747 N-LINKED (GLCNAC. .) (POTENTIAL).

SQ SEQUENCE 2333 AA; 240573 MW; 8B9ED78F3508B596 CRC64;

Query Match 13.9%; Score 155.5; DB 1; Length 2333;

Best Local Similarity 28.5%; Pred. No. 1.4e-05;

Matches 51; Conservative 24; Mismatches 61; Indels 43; Gaps 11;

QY 9 QPVCRRGG---TQPCYKVIYFHDTSRLNFEFEAKACRRDGGQLVLSIESEDEQKLEKFI 65

Db 2120 QELCEEGWTKFQGHCHYR--YFPD---RESWVDAESRCRAQQSHLSSIVTPEEQ-----EFV 2170

QY 66 ENLLPSDGF-WIGLRREKQSNSTACQDLYAWTDGSIQFRNWIYVDEPS---CGSEVC 121

Db 2171 NN---NAQDYQWIGL-----NDRTEGDFRWSHGSLQFENWRPNQPDNFFVSGEDC 2219

QY 122 VVM-YHQPAPAGIGPYMFQWDDRCNMKNFNICKYS----DEKPAVPSREAEGETE 175

Db 2220 VVMIWHEKG-----EWNDVPCNYLFTCKKGTACGDPVPVVEHARTFGQKCD 2267

RESULT 16

LEM2_MOUSE

ID LEM2_MOUSE STANDARD; PRT; 612 AA.

AC Q00690;

DT 01-APR-1993 (Rel. 25, Created)

DT 01-APR-1993 (Rel. 25, Last sequence update)

DT 15-MAR-2004 (Rel. 43, Last annotation update)

DE E-selectin precursor (Endothelial leukocyte adhesion molecule 1)

DE (ELAM-1) (Leukocyte-endothelial cell adhesion molecule 2) (LECAM2).

GN SELE OR ELAM-1.

OS Mus musculus (Mouse).

CC RX TISSUE=Leukemia; MEDLINE=99330438; PubMed=10403644; Petrenko O., Beavis A., Klaine M., Kittappa R., Godin I., Lemischka I.R.; "The molecular characterization of the fetal stem cell marker AA4."; Immunity 10:691-700(1999). [3] RP SEQUENCE FROM N.A. RC STRAIN=129/Sv; TISSUE=Endothelial cells, and Spleen; RX MEDLINE=99359842; PubMed=10430665; RA Norworthy P.J., Taylor P.R., Walport M.J., Botta M.; "Cloning of the mouse homolog of the 126-kDa human C1q/MBL/SP-A receptor, C1qRp."; Mamm. Genome 10:789-793(1999). CC -!- FUNCTION: Receptor (or element of a larger receptor complex) for C1q, mannose-binding lectin (MBL2) and pulmonary surfactant protein A (SPA). May mediate the enhancement of phagocytosis in monocytes and macrophages upon interaction with soluble defense collagens. May play a role in intercellular adhesion. Marker for early multipotent hematopoietic precursor cells. May play a role in cell-cell interactions during hematopoietic and vascular development. CC -!- SUBCELLULAR LOCATION: Type I membrane protein. CC -!- TISSUE SPECIFICITY: Expressed in lung, heart and bone marrow. CC Expressed at lower level in ovary, whole embryo and fetal liver. CC Not detected in brain, adult liver or thymus. Highly expressed in peritoneal cavity and bone marrow macrophages. Not detected in epithelial cells. CC -!- DEVELOPMENTAL STAGE: First detectable in day 9 embryos, in the endocardium and vascular endothelium in the anterior part of the embryo. Expression in endothelial cells, initially restricted to aorta, omphalomesenteric and umbilical arteries, later extends to subcardinal veins, intersomitic arteries and perimeural vessels. CC On day 10, detectable in the entire embryo. CC -!- PTM: N- and O-glycosylated (By similarity). CC -!- SIMILARITY: Contains 1 C-type lectin family domain. CC -!- SIMILARITY: Contains 5 EGF-like domains.

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CC EMBL; AF074856; AAC63274.1; -
CC EMBL; AF081789; AAC62649.1; -
CC EMBL; AF099939; AAD47906.1; -
CC EMBL; AF099938; AAD47906.1; JOINED.
CC HSSP; P35555; 1EMN.
CC MGD; MGI:106664; Clqrl.
CC GO; GO:0016023; C:cytoplasmic vesicle; IDA.
CC GO; GO:0016021; C:integral to membrane; ISS.
CC GO; GO:0005886; C:plasma membrane; IDA.
CC GO; GO:0004872; F:receptor activity; ISS.
CC GO; GO:0016337; P:cell-cell adhesion; ISS.
CC GO; GO:0042116; P:macrophage activation; ISS.
CC GO; GO:0006909; P:phagocytosis; ISS.
CC InterPro; IPR00152; Asx_hydroxyl_S.
CC InterPro; IPR001881; EGF_Ca.
CC InterPro; IPR006209; EGF-like.
CC InterPro; IPR001304; Lectin_C.
CC Pfam; PF00008; EGF; 5.
CC Pfam; PF00059; lectin_c; 1.
CC SMART; SM00034; CLECT; 1.
CC SMART; SM00179; EGF_CA; 3.
CC PROSITE; PS00010; ASX_HYDROXYL; 3.
CC PROSITE; PS00615; C_TYPE_LECTIN_1; FALSE_NEG.
CC PROSITE; PS50041; C_TYPE_LECTIN_2; 1.
CC PROSITE; PS01186; EGF_2; 3.
CC PROSITE; PS50026; EGF_3; 4.
CC PROSITE; PS01187; EGF_CA; 3.

KW Cell adhesion; Receptor; Repeat; Signal; Transmembrane;
KW EGF-like domain; Lectin; Glycoprotein.
FT SIGNAL 1 22 POTENTIAL.
FT CHAIN 23 644
FT DOMAIN 23 572 COMPLEMENT COMPONENT C1Q RECEPTOR.
FT TRANSMEM 573 593 EXTRACELLULAR (POTENTIAL).
FT DOMAIN 594 644 POTENTIAL.
FT DOMAIN 31 173 CYTOPLASMIC (POTENTIAL).
FT DOMAIN 257 298 C-TYPE LECTIN.
FT DOMAIN 299 341 EGF-LIKE 1.
FT DOMAIN 342 381 EGF-LIKE 2.
FT DOMAIN 382 423 EGF-LIKE 3, CALCIUM-BINDING (POTENTIAL).
FT DOMAIN 424 465 EGF-LIKE 4, CALCIUM-BINDING (POTENTIAL).
FT DISULFID 261 272 EGF-LIKE 5, CALCIUM-BINDING (POTENTIAL).
FT DISULFID 268 282 BY SIMILARITY.
FT DISULFID 284 297 BY SIMILARITY.
FT DISULFID 303 314 BY SIMILARITY.
FT DISULFID 308 325 BY SIMILARITY.
FT DISULFID 327 340 BY SIMILARITY.
FT DISULFID 346 355 BY SIMILARITY.
FT DISULFID 351 364 BY SIMILARITY.
FT DISULFID 366 380 BY SIMILARITY.
FT DISULFID 386 397 BY SIMILARITY.
FT DISULFID 393 406 BY SIMILARITY.
FT DISULFID 408 422 BY SIMILARITY.
FT DISULFID 428 440 BY SIMILARITY.
FT DISULFID 436 449 BY SIMILARITY.
FT DISULFID 451 464 BY SIMILARITY.
FT CARBOHYD 102 N-LINKED (GLCNAC...) (POTENTIAL).
FT CARBOHYD 322 N-LINKED (GLCNAC...) (POTENTIAL).
SQ SEQUENCE 644 AA; 69354 MW; EB4351648BF8635A CRC64;
Query Match 13.8%; Score 153.5; DB 1; Length 644;
Best Local Similarity 24.1%; Pred. No. 4.3e-06;
Matches 51; Conservative 32; Mismatches 70; Indels 59; Gaps 11;
QY 6 LSGP-----VCRGGTQPCYKVIYFHTSRRLNFEAEKACRRDGGQLVSIES 54
Db 13 LLGQPWAGAAADSQAVVCEG---TACYTAHW-----GKLSAAEAQHRCNENGGNLATVKS 64
QY 55 EDEQKLEKFIENLLPSD-----GDFWIGLRREKQSNSTACQDL----YAWT-DGS 102
Db 65 EEEARHVQQAALTQLTKAPLEAKMGKFWIGLQR---EKGNCYHDLPMRGFSWVGGE 120
QY 103 ISQFRNRY-VDEPSCGSEVCVVMY-----HQSAPAGIGGYMFQWDDRC----- 147
Db 121 DTAYSNWYKASKSCIFKRCVSLILDLSLTPHSHLP-----KWHESPCTPEAPG 171
QY 148 NMKNFICKYSDEKFAVPSREAEGETELTTP 179
Db 172 NSIEGFLCKFNFXGMCRPLALGGPGRVITYTP 203

RESULT 18

PGCA_RAT
ID PGCA_RAT STANDARD; PRT; 2124 AA.
AC P07897;
DT 01-AUG-1988 (Rel. 08, Created)
DT 01-FEB-1991 (Rel. 17, Last sequence update)
DT 15-MAR-2004 (Rel. 43, Last annotation update)
DE AggreCan core protein precursor (Cartilage-specific proteoglycan core protein) (CSPCP).
GN AGC1 OR AGC.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=101116;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=88087070; PubMed=36933370;
RA Doege K., Sasaki M., Horigan E., Hassell J.R., Yamada Y.;
RT "Complete primary structure of the rat cartilage proteoglycan core protein deduced from cDNA clones.";


```
FT CONFLICT 155 155 S -> N (IN REF. 1).
FT CONFLICT 186 186 G -> A (IN REF. 1; AA SEQUENCE).
FT CONFLICT 492 492 S -> A (IN REF. 1; AA SEQUENCE).
FT CONFLICT 496 496 R -> Q (IN REF. 1; AA SEQUENCE).
FT CONFLICT 504 504 R -> G (IN REF. 1; AA SEQUENCE).
FT CONFLICT 541 541 P -> S (IN REF. 1).
SQ SEQUENCE 652 AA; 68560 MW; ECA0FEAC55FCAC2 CRC64;

Query Match 13.6%; Score 151.5; DB 1; Length 652;
Best Local Similarity 24.4%; Pred. No. 6.6e-06;
Matches 50; Conservative 38; Mismatches 74; Indels 43; Gaps 9;

QY 5 LLSGQP-----VCRGGTQPCYKVIYFHTSRLNFEEAKEACRRDGGQLVSI 53
Db 13 LLLTQAGAGTADTEAVCVG---TACYTA-----HSGKLSAAEAQNHCNQGGLATVK 64
QY 54 SEDEQKLEKFIENLLPSD-----GDFWIGLRRREKQSNSTACQDLYAWT-DGSISQ 105
Db 65 SKEEAQHQRVLAQLLRREALTARMSKFWIGLQREKQKCLDPSLPKGFWSVWGGEDTP 124
QY 106 FRNYYVD-EPSCGSEVCVVM---YHQPSAPAGIGGPPYMFQWDDRCNMKN-----FI 154
Db 125 YSNWHKELRNSCISKRCVSLLDLSQPLPSRLP-----KWSEGPCGSPGSPGSGNIEGFV 179
QY 155 CKYSDEKPAVPSREAEGETELTTP 179
Db 180 CKFSFGMCRPLALGGPGQVYVTP 204
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RESULT 21
CLE1_HUMAN STANDARD; PRT; 197 AA.
AC O75596;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE C-type lectin superfamily member 1 precursor (Cartilage-derived C-type lectin).
GN CLECSF1.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Cartilage;
RX MEDLINE=99453719; PubMed=10524194;
RA Neame P.J., Tapp H., Grimm D.R.;
RT "The cartilage-derived, C-type lectin (CLECSF1): structure of the gene and chromosomal location.";
RL Biochim. Biophys. Acta 146:193-202(1999).
CC -!- TISSUE SPECIFICITY: Restricted to cartilage.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC
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CC
CC EMBL; AF077345; AAD12542.1;
DR EMBL; AF077344; AAD12542.1; JOINED.
DR HSSP; P05452; 1HTN.
DR Genew; HGNC:2052; CLECSF1.
DR GO; GO:0005530; F:lectin; TAS.
DR GO; GO:0001501; P:skeletal development; TAS.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; lectin_c; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
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KW Lectin; Signal.
FT SIGNAL 1 22 POTENTIAL.
FT CHAIN 23 197 C-TYPE LECTIN SUPERFAMILY MEMBER 1.
FT DOMAIN 74 192 C-TYPE LECTIN.
FT DISULFID 68 78 BY SIMILARITY.
FT DISULFID 95 191 BY SIMILARITY.
FT DISULFID 167 183 BY SIMILARITY.
SQ SEQUENCE 197 AA; 22232 MW; BB924DBDD7729A4 CRC64;

Query Match 13.5%; Score 151; DB 1; Length 197;
Best Local Similarity 25.0%; Pred. No. 1.7e-06;
Matches 38; Conservative 26; Mismatches 64; Indels 24; Gaps 4;

QY 9 QPVCRGGTQ--RPCYKVIYFHTSRLNFEEAKEACRRDGGQLVSI 66
Db 65 QTVCLRGTKVHKCYLA-----SEGLKHFHEANEDCISKGILVIPRNSDEINALQDYGK 119
QY 67 NLLPSDGFWIGLRRREKQSNSTACQDLYAWTDSISQFRNYYVDPEPCGSEVCVVMYH 126
Db 120 RSLPGVNDFWLGI-----NDMVTEGKFVDVNGIAISFLNWDRAQPNFGKRENCVLFS 171
QY 127 QPSAPAGIGGPPYMFQWDDRCNMKNFICKYS 158
Db 172 QSA-----QGWKSDACRSKRYICEFT 194
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RESULT 22
FCE2_HUMAN STANDARD; PRT; 321 AA.
AC P06734;
DT 01-JAN-1988 (Rel. 06, Created)
DT 01-JAN-1988 (Rel. 06, Last sequence update)
DT 15-MAR-2004 (Rel. 43, Last annotation update)
DE Low affinity immunoglobulin epsilon FC receptor (Lymphocyte IGE receptor) (FC-epsilon-RII) (CD23) (BLAST-2) (immunoglobulin E-binding factor).
DE factor).
GN FCER2 OR IGE2F.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=87118255; PubMed=2949326;
RA Ikuta K., Takami M., Kim C.W., Honjo T., Miyoshi T., Tagaya Y., Kawabe T., Yodoi J.;
RT "Human lymphocyte FC receptor for IGE: sequence homology of its cloned cDNA with animal lectins.";
RL Proc. Natl. Acad. Sci. U.S.A. 84:819-823(1987).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=87051737; PubMed=28777743;
RA Kikutani H., Inui S., Sato R., Barsumian E.L., Owaki H., Yamasaki K., Kaisho T., Uchibayashi N., Hardy R.R., Hirano T., Tsunasawa S., Sakiyama F., Suemura M., Kishimoto T.;
RT "Molecular structure of human lymphocyte receptor for immunoglobulin E.";
RL Cell 47:657-665(1986).
RN [3]
RP SEQUENCE FROM N.A.
RX MEDLINE=87218454; PubMed=3034567;
RA Luedin C., Hofstetter H., Sarfati M., Levy C.A., Suter U., Alaïmo D., Kilchherr E., Frost H., Delespesse G.;
RT "Cloning and expression of the cDNA coding for a human lymphocyte IGE receptor.";
RL EMBO J. 6:109-114(1987).
RN [4]
RP PARTIAL SEQUENCE, AND DISULFIDE BONDS.
RX MEDLINE=93038513; PubMed=1417742;
RA Rose K., Turcatti G., Graber P., Pochon S., Regamey P.-O., Jansen K.U., Magnenat E., Aubonne N., Bonnefoy J.-Y.;
RT "Partial characterization of natural and recombinant human soluble CD23.";
```

RL Biochem. J. 286:819-824(1992).

RN [5]

RP ALTERNATIVE SPLICING.

RX MEDLINE=89028672; PubMed=2972386;

RA Yokota A., Kikutani H., Tanaka T., Sato R., Barsumian E.L.,

RA Suemura M., Kishimoto T.;

RT "Two species of human Fc epsilon receptor II (Fc epsilon RII/CD23):

RT tissue-specific and IL-4-specific regulation of gene expression.";

RL Cell 55:611-618(1988).

RN [6]

RP 3D-STRUCTURE MODELING OF LECTIN DOMAIN.

RX MEDLINE=94191542; PubMed=8142907;

RA Padlan E.A., Helm B.A.;

RT "Modeling of the lectin-homology domains of the human and murine low-

RT affinity Fc epsilon receptor (Fc epsilon RII/CD23).";

RL Receptor 3:325-341(1993).

RN [7]

RP 3D-STRUCTURE MODELING OF 173-285.

RX MEDLINE=96276216; PubMed=8745401;

RA Bajorath J., Aruffo A.;

RT "Structure-based modeling of the ligand binding domain of the human

RT cell surface receptor CD23 and comparison of two independently

RT derived molecular models.";

RL Protein Sci. 5:240-247(1996).

CC -!- FUNCTION: This receptor has essential roles in the regulation of

CC IGE production and in the differentiation of B-cells (it is a B-

CC cell-specific antigen).

CC -!- SUBCELLULAR LOCATION: TYPE II MEMBRANE PROTEIN. ALSO EXISTS AS A

CC SOLUBLE EXCRETED FORM.

CC -!- ALTERNATIVE PRODUCTS:

CC Event=Alternative splicing; Named isoforms=2;

CC Name=A;

CC IsoId=P06734-1; Sequence=Displayed;

CC Name=B;

CC IsoId=P06734-2; Sequence=VSP_003057;

CC -!- PTM: N- and O-glycosylated.

CC -!- MISCELLANEOUS: There are two kinds of Fc receptors for IGE, which

CC differ in both structure and function: high affinity receptors on

CC basophils and mast cells and low affinity receptors on lymphocytes

CC and monocytes.

CC -!- SIMILARITY: Contains 1 C-type lectin family domain.

CC -!- DATABASE: NAME=PROW; NOTE=CD guide CD23 entry;

CC WWW="http://www.ncbi.nlm.nih.gov/prow/cd/cd23.htm".

CC -----

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CC or send an email to license@isb-sib.ch).

CC -----

CC EMBL; M15059; AA52434.1; --

DR EMBL; M14766; AA52435.1; --

DR EMBL; X04772; CAA28465.1; --

DR EMBL; M23562; AA52433.1; --

DR PIR; A26067; LNHUER.

DR PDB; 1HLI; 31-JAN-94.

DR PDB; 1KJE; 03-APR-96.

DR Genew; HGNC:3612; FCER2.

DR MIM; 151445; --

DR GO; GO:0005887; C:integral to plasma membrane; TAS.

DR GO; GO:0005178; F:integrin binding; TAS.

DR InterPro; IPR002353; AntifreezeII.

DR InterPro; IPR001304; Lectin C.

DR Pfam; PF00059; lectin_c; 1.

DR PRINTS; PR00356; ANTIFREEZEII.

DR SMART; SM00034; CLECT; 1.

DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.

DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.

KW Receptor; Antigen; IGE-binding protein; Repeat; Signal-anchor;

KW Transmembrane; Lectin; Glycoprotein; Alternative splicing;

KW 3D-structure.

FT CHAIN 1 321 MEMBRANE BOUND FORM.

FT CHAIN 150 321 SOLUBLE FORM.

FT DOMAIN 1 21 CYTOPLASMIC (POTENTIAL).

FT TRANSMEM 22 47 SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)

FT DOMAIN 48 321 (POTENTIAL).

FT DOMAIN 162 284 EXTRACELLULAR (POTENTIAL).

FT SITE 149 150 C-TYPE LECTIN (LONG FORM).

FT REPEAT 69 89 CLEAVAGE.

FT REPEAT 90 110

FT REPEAT 111 131

FT DISULFID 160 288

FT DISULFID 163 174

FT DISULFID 191 282

FT DISULFID 259 273

FT CARBOHYD 63 63

FT VARSPLIC 1 7

FT CONFLICT 269 269

FT STRAND 174 177

FT HELIX 184 193

FT TURN 194 195

FT STRAND 197 198

FT HELIX 204 214

FT TURN 215 216

FT STRAND 219 228

FT TURN 229 230

FT STRAND 231 234

FT TURN 235 236

FT STRAND 239 239

FT STRAND 245 245

FT TURN 247 248

FT TURN 254 255

FT STRAND 259 262

FT TURN 264 265

FT STRAND 268 271

FT TURN 273 274

FT STRAND 281 284

SQ SEQUENCE 321 AA; 36468 MW; F86708C0E6515B87 CRC64;

Query Match 13.4%; Score 149; DB 1; Length 321;

Best Local Similarity 30.2%; Pred.No. 4.6e-06;

Matches 55; Conservative 20; Mismatches 57; Indels 50; Gaps 11;

QY 17 QRPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSISEDEQKLIKFIENLLPSDGF 76

Db 171 QRKCY---YFGKGTQ--VWHARYACDDMEGQLVSIHSPEDFLTKH-----ASHTGSW 220

QY 77 IGLRRREEKQSNSTACQDLYAWTDGSIQFRNWNVYVDEPSCGS--EVCVVMYHQPSAPAGI 134

Db 221 IGLRNLDLKGE-----FIWVDGSHVDYSNWAPGEPTSRSQGEDCVMM-----RGS 265

QY 135 GGPYMFQWNDDRCNNK--NFIKYSDEKPAV---PSREAEGE-----ETELTTPV 180

Db 266 G-----RWNDAFCDKELGAWVC----DRLATCTPPASEGSAESMGPDSPDPDGRLP 316

QY 181 LP 182

Db 317 AP 318

RESULT 23

PGCA_MOUSE

ID_PGCA_MOUSE STANDARD; PRT; 2132 AA.

AC Q61282; Q64021;

DT 01-NOV-1997 (Rel. 35, Created)

DT 01-NOV-1997 (Rel. 35, Last sequence update)

DT 15-MAR-2004 (Rel. 43, Last annotation update)

DE Aggreccan core protein precursor (Cartilage-specific proteoglycan core

DE protein) (CSPCP).

GN AGC1 OR AGC.

OS Mus musculus (Mouse).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OS Gallus gallus (Chicken).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
 OC Gallus.
 OX NCBI_TaxID=9031;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=White leghorn; TISSUE=Embryo;
 RX MEDLINE=94043149; PubMed=8226878;
 RA Li H., Schwartz N.B., Vertel B.M.;
 RT "cDNA cloning of chick cartilage chondroitin sulfate (aggrecan) core
 RT protein and identification of a stop codon in the aggrecan gene
 RT associated with the chondrodystrophy, nanomelia.";
 RL J. Biol. Chem. 268:23504-23511(1993).
 RN [2]
 RP SEQUENCE OF 1042-1559 FROM N.A.
 RC TISSUE=Embryo;
 RX MEDLINE=90307744; PubMed=1694853;
 RA Krueger R.C. Jr., Fields T.A., Mensch J.R. Jr., Schwartz N.B.;
 RT "Chick cartilage chondroitin sulfate proteoglycan core protein. II.
 RT Nucleotide sequence of cDNA clone and localization of the S103L
 RT epitope.";
 RL J. Biol. Chem. 265:12088-12097(1990).
 RN [3]
 RP SEQUENCE OF 1-1855 AND 1893-2109 FROM N.A.
 RC TISSUE=Cartilage;
 RX MEDLINE=93111968; PubMed=1339285;
 RA Chandrasekaran L., Tanzer M.L.;
 RT "Molecular cloning of chicken aggrecan. Structural analyses.";
 RL Biochem. J. 288:903-910(1992).
 RN [4]
 RP ERRATUM.
 RX MEDLINE=94107258; PubMed=8280087;
 RA Chandrasekaran L., Tanzer M.L.;
 RL Biochem. J. 296:885-887(1993).
 RN [5]
 RP SEQUENCE OF 1492-1610 FROM N.A.
 RC STRAIN=White leghorn; TISSUE=Chondrocytes;
 RX MEDLINE=95128519; PubMed=7827752;
 RA Primorac D., Stover M.L., Clark S.H., Rowe D.W.;
 RT "Molecular basis of nanomelia, a heritable chondrodystrophy of
 RT chicken.";
 RL Matrix Biol. 14:297-305(1994).
 RN [6]
 RP SEQUENCE OF 1894-2109 FROM N.A.
 RX MEDLINE=89008500; PubMed=3170613;
 RA Tanaka T., Har-El R., Tanzer M.L.;
 RT "Partial structure of the gene for chicken cartilage proteoglycan
 RT core protein.";
 RL J. Biol. Chem. 263:15831-15835(1988).
 RN [7]
 RP SEQUENCE OF 1693-1855 AND 1893-2109 FROM N.A.
 RX MEDLINE=86259736; PubMed=3460082;
 RA Sai S., Tanaka T., Koshier R.A., Tanzer M.L.;
 RT "Cloning and sequence analysis of a partial cDNA for chicken
 RT cartilage proteoglycan core protein.";
 RL Proc. Natl. Acad. Sci. U.S.A. 83:5081-5085(1986).
 CC -!- FUNCTION: This proteoglycan is a major component of extracellular
 CC matrix of cartilaginous tissues. A major function of this protein
 CC is to resist compression in cartilage. It binds avidly to
 CC hyaluronic acid via an amino-terminal globular region. May play a
 CC regulatory role in the matrix assembly of the cartilage.
 CC -!- SUBCELLULAR LOCATION: Secreted; extracellular matrix (By
 CC similarity).
 CC -!- ALTERNATIVE PRODUCTS:
 CC Event=Alternative splicing; Named isoforms=2;
 CC Name=1;
 CC IsoId=P07898-1; Sequence=Displayed;
 CC Name=2;
 CC IsoId=P07898-2; Sequence=VSP_003073;
 CC -!- DOMAIN: Two globular domains, G1 and G2, comprise the amino
 CC terminus of the proteoglycan, while another globular region, G3,
 CC makes up the COOH terminus. G1 contains link domains and thus

CC consists of three disulfide-bonded loop structures designated as
 CC the A, B, B' motifs. G2 is similar to G1. The keratan sulfate (KS)
 CC and the chondroitin sulfate (CS) attachment domains lie between G2
 CC and G3.
 CC -!- PTM: Contains mostly chondroitin sulfate, but also keratan sulfate
 CC chains, N-linked and O-linked oligosaccharides.
 CC -!- DISEASE: DEFECTS IN AGC1 ARE THE CAUSE OF NANOMELIA, A LETHAL
 CC CONNECTIVE TISSUE DISORDER AFFECTING CARTILAGE DEVELOPMENT
 CC (CHONDRODYSTROPHY) CHARACTERIZED BY SHORTENED AND MALFORMED LIMBS.
 CC AGGREGAN IS TRUNCATED AT ITS C-TERMINAL IN THE CS-2 BINDING DOMAIN
 CC AND IS NOT ANYMORE SECRETED FROM THE CHONDROCYTES.
 CC -!- SIMILARITY: Belongs to the aggrecan/versican proteoglycan family.
 CC -!- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
 CC -!- SIMILARITY: Contains 4 link domains.
 CC -!- SIMILARITY: Contains 1 EGF-like domain.
 CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
 CC -!- SIMILARITY: Contains 1 Sushi (SCR) domain.
 CC -----
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 CC -----
 CC EMBL; L21913; AAB19128.1; -;
 CC EMBL; M38187; AAA48731.1; -;
 CC EMBL; M88101; -; NOT ANNOTATED_CDS.
 CC EMBL; S74657; AAC60751.1; -;
 CC EMBL; S74656; AAC60751.1; JOINED.
 CC EMBL; J04028; AAA48719.1; -;
 CC EMBL; M13993; AAA48720.1; -;
 CC PIR; I50421; I50421.
 CC HSSP; P08709; 1BF9.
 CC InterPro; IPR002353; AntifreezeII.
 CC InterPro; IPR000152; Asx_hydroxyl_S.
 CC InterPro; IPR000742; EGF_2.
 CC InterPro; IPR001881; EGF_Ca.
 CC InterPro; IPR006209; EGF_Like.
 CC InterPro; IPR007110; Ig-Like.
 CC InterPro; IPR003599; Ig.
 CC InterPro; IPR001304; Lectin_C.
 CC InterPro; IPR000538; Link.
 CC InterPro; IPR003324; SGXSG.
 CC InterPro; IPR000436; Sushi_SCR_CCP.
 CC Pfam; PF00008; EGF; 1.
 CC Pfam; PF00047; ig; 1.
 CC Pfam; PF00059; lectin_c; 1.
 CC Pfam; PF02339; SGXSG; 56.
 CC Pfam; PF00084; sushi; 1.
 CC Pfam; PF00193; Xlink; 4.
 CC PRINTS; PR00356; ANTIFREEZEII.
 CC PRINTS; PR01265; LINKMODULE.
 CC ProDom; PD000918; Link; 4.
 CC SMART; SM00032; CCP; 1.
 CC SMART; SM00034; CLECT; 1.
 CC SMART; SM00179; EGF_CA; 1.
 CC SMART; SM00409; IG; 1.
 CC SMART; SM00445; LINK; 4.
 CC PROSITE; PS00010; ASX_HYDROXYL; 1.
 CC PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
 CC PROSITE; PS00041; C_TYPE_LLECTIN_2; 1.
 CC PROSITE; PS00022; EGF_1; 1.
 CC PROSITE; PS00026; EGF_3; 1.
 CC PROSITE; PS01187; EGF_CA; 1.
 CC PROSITE; PS00835; IG_LIKE; 1.
 CC PROSITE; PS01241; LINK; 4.
 CC Glycoprotein; Proteoglycan; Lectin; Signal; Sushi; EGF-like domain;
 CC Alternative splicing; Repeat; Immunoglobulin domain.
 FT SIGNAL 1 16
 FT CHAIN 17 2109
 FT DOMAIN 34 143
 FT POTENTIAL
 FT AGGREGAN CORE PROTEIN.
 FT IG-LIKE V-TYPE.

```
FT DOMAIN 166 243 LINK 1.
FT DOMAIN 264 346 LINK 2.
FT DOMAIN 537 614 LINK 3.
FT DOMAIN 635 716 LINK 4.
FT DOMAIN 1363 1742 19 X 20 AA TANDEM-REPEAT.
FT DOMAIN 1855 1892 EGF-LIKE.
FT DOMAIN 1901 2019 C-TYPE LECTIN.
FT DOMAIN 2023 2081 SUSHI.
FT DOMAIN 48 137 G1-A.
FT DOMAIN 148 243 G1-B.
FT DOMAIN 249 346 G1-B'.
FT DOMAIN 519 613 G2-B.
FT DOMAIN 620 715 G2-B'.
FT DOMAIN 718 803 KS.
FT DOMAIN 805 1264 CS-1.
FT DOMAIN 1265 1742 CS-2.
FT DOMAIN 1893 2109 G3.
FT DISULFID 51 129 BY SIMILARITY.
FT DISULFID 171 242 BY SIMILARITY.
FT DISULFID 195 216 BY SIMILARITY.
FT DISULFID 269 345 BY SIMILARITY.
FT DISULFID 293 314 BY SIMILARITY.
FT DISULFID 542 613 BY SIMILARITY.
FT DISULFID 566 587 BY SIMILARITY.
FT DISULFID 640 715 BY SIMILARITY.
FT DISULFID 664 685 BY SIMILARITY.
FT DISULFID 1859 1870 BY SIMILARITY.
FT DISULFID 1864 1879 BY SIMILARITY.
FT DISULFID 1881 1890 BY SIMILARITY.
FT DISULFID 1897 1908 BY SIMILARITY.
FT DISULFID 1925 2017 BY SIMILARITY.
FT DISULFID 1993 2009 BY SIMILARITY.
FT DISULFID 2024 2067 BY SIMILARITY.
FT DISULFID 2053 2080 BY SIMILARITY.
FT CARBOHYD 76 76 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 122 122 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 330 330 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 388 388 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 439 439 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 644 644 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 700 700 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 765 765 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 801 801 N-LINKED (GLCNAC. .) (POTENTIAL).
FT VARSPLIC 1856 1892 Missing (in isoform 2).
FT CONFLICT 362 362 /FTID=VSP 003073.
E -> D (IN REF. 3).
```

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Query Match 13.1%; Score 146; DB 1; Length 2109;
Best Local Similarity 25.0%; Pred. No. 8.7e-05;
Matches 42; Conservative 28; Mismatches 58; Indels 40; Gaps 8;

QY 17 QRPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSISEDEQKLEKFIENLLPSDGF- 75
Db 1905 QGHCYR--HFEE---RETWMDAESRCREHQAHLSIIITPEEQEFVNSHAQ-----DYQ 1952
QY 76 WIGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVDEPS-----CGSEVCVVMYHQPSAP 131
Db 1953 WIGLSDR-----AVENDFRWSGDGHSLSQFENWRPNQPDNFFFFAGEDCVVMIWHEQG-- 2002
QY 132 AGIGGYPYMFQWDDRCNMKNNFICKYS----DEKPAVPSREAEGETE 175
Db 2003 -----EWNDDVPCNYHLPTCKKGTGTVACGDPVVENARTFGRKKD 2041

RESULT 26
LECG TRIST
ID LECG TRIST STANDARD; PRT; 158 AA.
AC Q9YGP1;
DT 30-MAY-2000 (Rel. 39, Created)
DT 30-MAY-2000 (Rel. 39, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Galactose-binding lectin precursor (TSL).
OS Trimeresurus stejnegeri (Chinese green tree viper).
```

```
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Lepidosauria; Squamata; Scleroglossa; Serpentes; Colubroidea;
OC Viperidae; Crotalinae; Trimeresurus.
OX NCBI_TaxID=39682;
RN [1]
RP SEQUENCE FROM N.A., SEQUENCE OF 24-53, AND MASS SPECTROMETRY.
RC TISSUE=Venom;
RX MEDLINE=99348038; PubMed=10417338;
RA Xu Q., Wu X.-F., Xia Q.-C., Wang K.-Y.;
RT "Cloning of a galactose-binding lectin from the venom of Trimeresurus
RT stejnegeri.";
RL Biochem. J. 341:733-737(1999).
RN [2]
RP SEQUENCE, CARBOHYDRATE-LINKAGE SITE, AND STRUCTURE OF CARBOHYDRATES.
RC TISSUE=Venom;
RX PubMed=10561575;
RA Zeng R., Xu Q., Shao X.-X., Wang K.-Y., Xia Q.-C.;
RT "Characterization and analysis of a novel glycoprotein from snake
RT venom using liquid chromatography-electrospray mass spectrometry and
RT Edman degradation.";
RL Eur. J. Biochem. 266:352-358(1999).
CC -!- FUNCTION: Galactose-binding protein which recognizes specific
CC carbohydrate structures and agglutinate a variety of animal cells
CC by binding to cell-surface glycoproteins and glycolipids. May be a
CC calcium-dependent lectin.
CC -!- SUBUNIT: Homodimer; disulfide-linked.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- MASS SPECTROMETRY: MW=17924.2; MW_ERR=2.4; METHOD=Electrospray;
CC RANGE=24-158.
CC -!- MISCELLANEOUS: Met-33 has been shown to be oxidized to methionine
CC sulfoxide (Ref.2) but this probably results from sample treatment
CC prior to mass spectrometry.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC -----
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CC -----
CC EMBL; AF119097; AAD17252.1; -.
DR HSSP; P22897; 1EGG.
DR GlycoSuiteDB; Q9YGP1; -.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR003990; Pancreatins_ac.
DR Pfam; PF00059; lectin_c; 1.
DR PRINTS; PR01504; PNCREATITSAP.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LECTIN_2; 1.
KW Lectin; Signal; Calcium; Glycoprotein.
FT SIGNAL 1 23
FT CHAIN 24 158 GALACTOSE-BINDING LECTIN.
FT DOMAIN 24 158 C-TYPE LECTIN.
FT DISULFID 26 37 BY SIMILARITY.
FT DISULFID 54 154 BY SIMILARITY.
FT DISULFID 61 156 BY SIMILARITY.
FT DISULFID 129 146 BY SIMILARITY.
FT DISULFID 109 109 INTERCHAIN (BY SIMILARITY).
FT CARBOHYD 28 28 N-LINKED (GLCNAC. .) (HIGH MANNOSE).
FT /FTID=CAR 000165.
SQ SEQUENCE 158 AA; 18635 MW; 2077BC62B7A08FF9 CRC64;

Query Match 13.0%; Score 145; DB 1; Length 158;
Best Local Similarity 26.7%; Pred. No. 4.4e-06;
Matches 39; Conservative 20; Mismatches 51; Indels 36; Gaps 5;

QY 20 CYKVIYFHDTSRLNFEFEAKEACR--RDGGQLVSISEDEQKLEKFIENLLPSDGFWI 77
Db 37 CYKIF-----DEPXTWEDAEMFCRKYPGCHLASFHLAESLDIAEYISDYHKRQAEVWI 91
```



```
FT VARSPLIC 646 883 Missing (in isoform 2).
FT FTID=VSP 003077.
FT AL -> WV (IN REF. 3).
FT V -> L (IN REF. 2).
FT TV -> PA (IN REF. 2).
FT G -> R (IN REF. 2).
FT G -> A (IN REF. 2).
FT G -> S (IN REF. 2).
FT E -> A (IN REF. 2).
FT V -> L (IN REF. 2).
FT V -> L (IN REF. 2).
FT P -> A (IN REF. 2).
FT P -> A (IN REF. 2).
FT R -> A (IN REF. 2).
FT R -> A (IN REF. 2).
SQ SEQUENCE 883 AA; 96057 MW; AC7ACC40CB53ED37 CRC64;

Query Match 13.0%; Score 145; DB 1; Length 883;
Best Local Similarity 29.7%; Pred. No. 3.7e-05;
Matches 43; Conservative 20; Mismatches 46; Indels 36; Gaps 8;

QY 17 QRCYKVIYFHDTSRRLNFEAEACRRDGGQLVSISEDEQKLI-EKFIENLLPSDGF 75
Db 672 QGACYK---HFSTR-SWEAEQCRALGAHLTSICTPEEQDFVNDYREYQ----- 719

QY 76 WIGLRRREKQSNSTACQDLYAWTDGSGISQFRNMYVDEPS---CGSEVCVVM-YHQPSAP 131
Db 720 WIGL-----NDRTIEGDFLWSDGPPLLYENWNPQDPDSYFLSGENCVMVWHDOG-- 769

QY 132 AGIGPYMFQWDDRCNMKNFICK 156
Db 770 -----QMSDVPCNVHLSYCK 785
```

```
RESULT 28
LEC2_MEGRO STANDARD; PRT; 173 AA.
AC P17346;
DT 01-AUG-1990 (Rel. 15, Created)
DT 01-AUG-1990 (Rel. 15, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Lactin BRA-2.
OS Megabalanus rosa (Acorn barnacle).
OC Eukaryota; Metazoa; Arthropoda; Crustacea; Maxillopoda; Cirripedia;
OC Thoracica; Sessilia; Balanomorpha; Balanoidea; Balanidae;
OC Megabalanus.
OX NCBI_TaxID=6680;
RN [1]
RP SEQUENCE.
RC TISSUE=Coelomic fluid;
RX MEDLINE=90283457; PubMed=2354200;
RA Muramoto K., Kamiya H.;
RT "The amino-acid sequence of multiple lectins of the acorn barnacle
Megabalanus rosa and its homology with animal lectins.";
RL Biochim. Biophys. Acta 1039:42-51(1990).
RN [2]
RP DISULFIDE BONDS, AND CARBOHYDRATE-LINKAGE SITE.
RX MEDLINE=90283459; PubMed=2354201;
RA Muramoto K., Kamiya H.;
RT "The positions of the disulfide bonds and the glycosylation site in a
lectin of the acorn barnacle Megabalanus rosa.";
RL Biochim. Biophys. Acta 1039:52-60(1990).
CC -!- FUNCTION: Sugar-binding protein which recognizes specific
carbohydrate structures and agglutinates a variety of animal cells
by binding to cell-surface glycoproteins and glycolipids. Calcium-
dependent lectin. Invertebrate lectins may be involved in defense
functions.
CC -!- SUBUNIT: Homohexamer; disulfide-linked.
CC -!- TISSUE SPECIFICITY: Coelomic fluid.
CC -!- MISCELLANEOUS: This lectin binds galactose.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
DR PIR; S10548; S10548.
DR HSSP; P23806; 11XX.
DR InterPro; IPR002353; AntifreezeII.
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DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; lectin_c; 1.
DR PRINTS; PR00356; ANTIREEZEII.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
DR PROSITE; PS00411; C_TYPE_LLECTIN_2; 1.
KW Glycoprotein; Lectin; Calcium.
FT DOMAIN 51 170 C-TYPE LECTIN (LONG FORM).
FT DISULFID 14 14 INTERCHAIN (WITH C-50 IN OTHER CHAIN).
FT DISULFID 50 50 INTERCHAIN (WITH C-1 IN OTHER CHAIN).
FT DISULFID 47 61
FT DISULFID 78 168
FT DISULFID 144 160
FT CARBOHYD 39 N-LINKED (GLCNAC...).
SQ SEQUENCE 173 AA; 19580 MW; CD90DCA1F805D818 CRC64;

Query Match 13.0%; Score 144.5; DB 1; Length 173;
Best Local Similarity 28.6%; Pred. No. 5.4e-06;
Matches 38; Conservative 18; Mismatches 50; Indels 27; Gaps 5;

QY 26 FHDTSRRLNFEAEACRR--DGGQLVSISEDEQKLI-EKFIENLLPSDGFWIGLRRRE 83
Db 62 FHPLEKASVMVAHVGVCAVLDSRAFLASIDAAD-QAVVEPL-----SSEKMWIGL---- 110

QY 84 EKQSNSTACQDLYAWTDGSGISQFRNMYVDEPSGSEVCVVMYHQPSAPAGIGPYMFQWN 143
Db 111 ----SYDSANDAADVWDDSHSHRNWYATQPDDESELCLVLIKEDQYR-----QWH 156

QY 144 DDRCNMKNFICK 156
Db 157 DYNCNDRYNEVCE 169
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RESULT 29
LEM1_RAT STANDARD; PRT; 372 AA.
AC P30836;
DT 01-JUL-1993 (Rel. 26, Created)
DT 01-JUL-1993 (Rel. 26, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE L-selectin precursor (Lymph node homing receptor) (Leukocyte adhesion
molecule-1) (LAM-1) (LY-22) (Lymphocyte surface MEL-14 antigen)
DE (Leukocyte-endothelial cell adhesion molecule 1) (LECAM1) (CD62L).
GN SELL OR LNH OR LY-22.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=92329548; PubMed=1378303;
RA Watanabe T., Song Y., Hirayama Y., Tamatani T., Kuida K., Miyasaka M.;
RT "Sequence and expression of a rat cDNA for LECAM-1.";
RL Biochim. Biophys. Acta 1131:321-324(1992).
CC -!- FUNCTION: Cell surface adhesion protein. Mediate the adherence of
lymphocytes to endothelial cells of high endothelial venules in
peripheral lymph nodes.
CC -!- SUBCELLULAR LOCATION: Type I membrane protein.
CC -!- SIMILARITY: Belongs to the selectin/LECAM family.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC -!- SIMILARITY: Contains 1 EGF-like domain.
CC -!- SIMILARITY: Contains 2 Sushi (SCR) domains.
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or send an email to license@isb-sib.ch).
CC -----
DR EMBL; D10831; BAA01613.1; -.
DR PIR; S23936; S23936.
```


FT	DOMAIN	517	549	CYTOPLASMIC (POTENTIAL).
FT	DOMAIN	22	139	C-TYPE LECTIN.
FT	DOMAIN	140	175	EGF-LIKE.
FT	DOMAIN	179	239	SUSHI 1.
FT	DOMAIN	242	301	SUSHI 2.
FT	DOMAIN	304	364	SUSHI 3.
FT	DOMAIN	367	427	SUSHI 4.
FT	DOMAIN	430	486	SUSHI 5.
FT	DISULFID	40	138	BY SIMILARITY.
FT	DISULFID	111	130	BY SIMILARITY.
FT	DISULFID	143	154	BY SIMILARITY.
FT	DISULFID	148	163	BY SIMILARITY.
FT	DISULFID	165	174	BY SIMILARITY.
FT	DISULFID	180	225	BY SIMILARITY.
FT	DISULFID	210	238	BY SIMILARITY.
FT	DISULFID	243	287	BY SIMILARITY.
FT	DISULFID	273	300	BY SIMILARITY.
FT	DISULFID	305	350	BY SIMILARITY.
FT	DISULFID	336	363	BY SIMILARITY.
FT	DISULFID	368	413	BY SIMILARITY.
FT	DISULFID	399	426	BY SIMILARITY.
FT	DISULFID	431	472	BY SIMILARITY.
FT	DISULFID	458	485	BY SIMILARITY.
FT	CARBOHYD	25	25	N-LINKED (GLCNAC. .) (POTENTIAL).
FT	CARBOHYD	60	60	N-LINKED (GLCNAC. .) (POTENTIAL).
FT	CARBOHYD	145	145	N-LINKED (GLCNAC. .) (POTENTIAL).
FT	CARBOHYD	192	192	N-LINKED (GLCNAC. .) (POTENTIAL).
FT	CARBOHYD	203	203	N-LINKED (GLCNAC. .) (POTENTIAL).
FT	CARBOHYD	266	266	N-LINKED (GLCNAC. .) (POTENTIAL).
FT	CARBOHYD	313	313	N-LINKED (GLCNAC. .) (POTENTIAL).
FT	CARBOHYD	320	320	N-LINKED (GLCNAC. .) (POTENTIAL).
FT	CARBOHYD	333	333	N-LINKED (GLCNAC. .) (POTENTIAL).
FT	CARBOHYD	441	441	N-LINKED (GLCNAC. .) (POTENTIAL).
FT	CARBOHYD	465	465	N-LINKED (GLCNAC. .) (POTENTIAL).
SQ	SEQUENCE	549 AA; 60079 MW; 85CEECDB7B0144C8	CRC64;	
Query Match 12.7%; Score 141.5; DB 1; Length 549;				
Best Local Similarity 26.5%; Pred. No. 4.2e-05;				
Matches 36; Conservative 28; Mismatches 47; Indels 25; Gaps 5;				
QY	25	YFHDTSRRLNFEAEACRRDGGQLVSIIESEDEQKLEKFIENLLPSDGFHWIGLRREE	84	
Db	23	YNNASSELMTYDEASAYCQRDYTHLVAIQNKEE---INYNSTLRSPSYWIGIRK---	76	
QY	85	KQSNSTACQDLYAWTDGS---ISQFRNWWYVDEPS--CGSEVVCVMYHQPAPAGICGPPYM	139	
Db	77	-----VNNVWIIWVGTKPLTEEAKNWAPGEPNNKQKRNEDCVEIYIQRPKDSGM-----	124	
QY	140	FQWNDRCNMKNFNIC	155	
Db	125	--WNDERCDKKLALC	138	
RESULT 33				
LEC3_MEGRO	STANDARD;	PRT;	162 AA.	
ID	LEC3_MEGRO			
AC	P07439;			
DT	01-APR-1988 (Rel. 07, Created)			
DT	01-OCT-1996 (Rel. 34, Last sequence update)			
DT	10-OCT-2003 (Rel. 42, Last annotation update)			
DE	Lectin BRA-3 precursor.			
OS	Megabalanus rosa (Acorn barnacle).			
OC	Eukaryota; Metazoa; Arthropoda; Crustacea; Maxillopoda; Cirripedia;			
OC	Thoracica; Sessilia; Balanomorpha; Balanoidea; Balanidae;			
OC	Megabalanus.			
OX	NCBI_TaxID=6680;			
RN	[1]			
RP	SEQUENCE FROM N.A.			
RX	MEDLINE=93292994; PubMed=8514190;			
RA	Takamatsu N., Takeda T., Kojima M., Heishi M., Muramoto K.,			
RA	Kamiya H., Shiba T.;			
RT	"Acorn barnacle Megabalanus rosa lectin (BRA-3): cDNA cloning, gene			
RT	structure and seasonal changes of mRNA and protein levels."			
RL	Gene 128:251-255(1993).			
RN	[2]			
RP	SEQUENCE OF 25-162.			
RA	Muramoto K., Kamiya H.;			
RT	"The amino-acid sequence of a lectin of the acorn barnacle			
RT	Megabalanus rosa.";			
RL	Biochim. Biophys. Acta 874:285-295(1986).			
CC	-!- FUNCTION: Sugar-binding protein which recognizes specific			
CC	carbohydrate structures and agglutinate a variety of animal cells			
CC	by binding to cell-surface glycoproteins and glycolipids. Calcium-			
CC	dependent lectin. Invertebrate lectins may be involved in defense			
CC	functions.			
CC	-!- SUBUNIT: Homotetramer; disulfide-linked.			
CC	-!- TISSUE SPECIFICITY: Coelomic fluid.			
CC	-!- MISCELLANEOUS: This lectin binds galactose.			
CC	-!- SIMILARITY: Contains 1 C-type lectin family domain.			
CC	-----			
CC	This SWISS-PROT entry is copyright. It is produced through a collaboration			
CC	between the Swiss Institute of Bioinformatics and the EMBL outstation -			
CC	the European Bioinformatics Institute. There are no restrictions on its			
CC	use by non-profit institutions as long as its content is in no way			
CC	modified and this statement is not removed. Usage by and for commercial			
CC	entities requires a license agreement (See http://www.isb-sib.ch/announce/			
CC	or send an email to license@isb-sib.ch).			
CC	-----			
CC	EMBL; D13302; BAA02556.1;			
DR	EMBL; D13299; BAA02556.1; JOINED.			
DR	EMBL; D13300; BAA02556.1; JOINED.			
DR	EMBL; D13301; BAA02556.1; JOINED.			
DR	HSP; P23806; IIXX.			
DR	InterPro; IPR002353; AntifreezeII.			
DR	InterPro; IPR001304; Lectin_C.			
DR	InterPro; IPR003990; Pancreatins_ac.			
DR	Pfam; PF00059; lectin C; 1.			
DR	PRINTS; PR00356; ANTIFREEZEII.			
DR	PRINTS; PR01504; PNCREATITISAP.			
DR	SMART; SM00034; CLECT; 1.			
DR	PROSITE; PS00615; C_TYPE_LECTIN_1; 1.			
DR	PROSITE; PS50041; C_TYPE_LECTIN_2; 1.			
KW	Lectin; Calcium; Signal.			
FT	SIGNAL	1	24	LECTIN BRA-3.
FT	CHAIN	25	162	C-TYPE LECTIN (LONG FORM).
FT	DOMAIN	25	152	
FT	DISULFID	26	39	
FT	DISULFID	56	150	
FT	DISULFID	125	142	
FT	DISULFID	157	157	INTERCHAIN (WITH C-136 IN OTHER CHAIN).
FT	DISULFID	160	160	INTERCHAIN (WITH C-133 IN OTHER CHAIN).
FT	VARIANT	146	146	K -> R.
SQ	SEQUENCE	162 AA; 18328 MW; EB7F14E91DD1CB81	CRC64;	
Query Match 12.6%; Score 140.5; DB 1; Length 162;				
Best Local Similarity 24.4%; Pred. No. 1.1e-05;				
Matches 39; Conservative 26; Mismatches 60; Indels 35; Gaps 6;				
QY	5	LLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEAEACR--RDGGQLVSIIESEDEQKLE	62	
Db	19	ITTAECTCPGNLDWQYDGHGCVWASTYQVRWDAQLACQTVHPGAYLATIQSLENAFIS	78	
QY	63	KFIENLLPSDGFHWIGLRREEKQSNSTACQDLYAWTDGSIISQFRNWWYVDEPS-----C	116	
Db	79	ETVSN-----NRLWIGL-----NDIDLEGHVWWSNGEATDFTYSSNNPNWENQDC	125	
QY	117	GSEVVCVMYHQPAPAGICGPPYMFQWNDRCNMKNFNICK	156	
Db	126	G----VNNYDVTG-----QWDDDDDCNKNKFLCK	151	
RESULT 34				
LEM1_BOVIN	STANDARD;	PRT;	370 AA.	
ID	LEM1_BOVIN			
AC	P98131;			
DT	01-FEB-1996 (Rel. 33, Created)			

DT 01-FEB-1996 (Rel. 33, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE L-selectin precursor (Lymph node homing receptor) (Leukocyte adhesion
DE molecule-1) (LAM-1) (Leukocyte-endothelial cell adhesion molecule 1)
DE (LECAM1) (CD62L).
GN SELL.
OS Bos taurus (Bovine).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovoidea;
OC Bovidae; Bovinae; Bos.
OX NCBI_TaxID=9913;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=92164727; PubMed=1371468;
RA Walcheck B., White M., Kurk S., Kishimoto T.K., Jutila M.A.;
RT "Characterization of the bovine peripheral lymph node homing
RT receptor: a lectin cell adhesion molecule (LECAM).";
RL Eur. J. Immunol. 22:469-476(1992).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=94055053; PubMed=7694420;
RA Bosworth B.T., Dowbenko D., Shuster D.E., Harp J.A.;
RT "Bovine L-selectin: a peripheral lymphocyte homing receptor.";
RL Vet. Immunol. Immunopathol. 37:201-215(1993).
CC -!- FUNCTION: Cell surface adhesion protein. Mediate the adherence of
CC lymphocytes to endothelial cells of high endothelial venules in
CC peripheral lymph nodes.
CC -!- SUBCELLULAR LOCATION: Type I membrane protein.
CC -!- SIMILARITY: Belongs to the selectin/LECAM family.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC -!- SIMILARITY: Contains 1 EGF-like domain.
CC -!- SIMILARITY: Contains 2 Sushi (SCR) domains.
CC
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CC
CC -----
CC EMBL; X62882; CAA44676.1; -.
CC PIR; S22124; S22124.
CC HSP; P14151; 1KJB.
CC InterPro; IPR006209; EGF like.
CC InterPro; IPR006210; IEGF.
CC InterPro; IPR001304; Lectin C.
CC InterPro; IPR002396; Selectin.
CC InterPro; IPR000436; Sushi_SCR_CCP.
CC Pfam; PF00008; EGF; 1.
CC Pfam; PF00059; lectin_c; 1.
CC Pfam; PF00084; sushi; 2.
CC PRINTS; PR00343; SELECTIN.
CC SMART; SM00032; CCP; 2.
CC SMART; SM00034; CLECT; 1.
CC SMART; SM00181; EGF; 1.
CC PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
CC PROSITE; PS0041; C_TYPE_LLECTIN_2; 1.
CC PROSITE; PS00022; EGF_1; 1.
CC PROSITE; PS01186; EGF_2; 1.
CC PROSITE; PS00026; EGF_3; 1.
KW Cell adhesion; Transmembrane; Glycoprotein; EGF-like domain; Lectin;
KW Selectin; Signal; Sushi; Repeat.
FT SIGNAL 1 28 POTENTIAL.
FT PROPEP 29 38 POTENTIAL.
FT CHAIN 39 370 L-SELECTIN.
FT DOMAIN 39 333 EXTRACELLULAR (POTENTIAL).
FT TRANSMEM 334 354 POTENTIAL.
FT DOMAIN 355 370 CYTOPLASMIC (POTENTIAL).
FT DOMAIN 55 155 C-TYPE LECTIN (SHORT FORM).
FT DOMAIN 156 192 EGF-LIKE.
FT DOMAIN 196 255 SUSHI 1.
FT DOMAIN 258 317 SUSHI 2.

FT DISULFID 57 155 BY SIMILARITY.
FT DISULFID 128 147 BY SIMILARITY.
FT DISULFID 160 171 BY SIMILARITY.
FT DISULFID 165 180 BY SIMILARITY.
FT DISULFID 182 191 BY SIMILARITY.
FT DISULFID 197 241 BY SIMILARITY.
FT DISULFID 227 254 BY SIMILARITY.
FT DISULFID 259 303 BY SIMILARITY.
FT DISULFID 289 316 BY SIMILARITY.
FT CARBOHYD 60 60 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 77 77 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 104 104 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 177 177 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 216 216 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 226 226 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 246 246 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 308 308 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 320 320 N-LINKED (GLCNAC. .) (POTENTIAL).
SQ SEQUENCE 370 AA; 41971 MW; 92168F8116AE9228 CRC64;
Query Match 12.6%; Score 140; DB 1; Length 370;
Best Local Similarity 25.3%; Pred. No. 3.5e-05;
Matches 46; Conservative 35; Mismatches 57; Indels 44; Gaps 9;
QY 26 FHDTSRLNFEAEKACRRDGGQLVSISEDEQKLEKFIENLLP-SDGDFWIGLRREE 84
Db 41 YHYSKRPMPEKARAFCEYNTDVAIQNKGE---IE-YLNKTLFPSRTYWGIRKVE- 95
QY 85 KQSNSTACQDLAYW--TDGIS-QFRNMYVDPS--CGSEVCVMYHQPSAPAGIGPYM 139
Db 96 -----GVWTWVGINKSLTEAKNGWAGEPNRKSKEDECVIYIKRNDGSG----- 140
QY 140 FQWDDRCNMKNFICKYSDKPAVPSREAE-----GEETELTPVLP 182
Db 141 -KWDDACHKAKTALCYTASCKPWSGSGHGQCVVEVINNYTCNDLGYGECQFVTQCVP 199
QY 183 EE 184
Db 200 LE 201
RESULT 35
PSPA_HUMAN
ID PSPA_HUMAN STANDARD; PRT; 248 AA.
AC P07714;
DT 01-APR-1988 (Rel. 07, Created)
DT 01-APR-1990 (Rel. 14, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Pulmonary surfactant-associated protein A precursor (SP-A) (PSP-A)
DE (PSP) (Alveolar proteinosis protein) (35 kDa pulmonary surfactant-
DE associated protein).
DE (SFTPA1 OR SFTPA OR SFTP1 OR PSAP) AND (SFTPA2 OR SFTPA).
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=86250832; PubMed=3755136;
RA Floros J., Steinbrink R., Jacobs K., Phelps D., Kriz R., Recny M.,
RA Sultzman L., Jones S., Tausch H.W., Frank H.A., Fritsch E.F.;
RT "Isolation and characterization of cDNA clones for the 35-kDa
RT pulmonary surfactant-associated protein.";
RL J. Biol. Chem. 261:9029-9033(1986).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=86014366; PubMed=2995821;
RA White R.T., Damm D., Miller J., Spratt K., Schilling J., Hawgood S.,
RA Benson B., Cordell B.;
RT "Isolation and characterization of the human pulmonary surfactant
RT apoprotein gene.";
RL Nature 317:361-363(1985).
RN [3]

ID TETN MOUSE STANDARD; PRT; 202 AA.
AC P43025;
DT 01-NOV-1995 (Rel. 32, Created)
DT 01-FEB-1996 (Rel. 33, Last sequence update)
DT 15-JUL-1999 (Rel. 38, Last annotation update)
DE Tetranectin precursor (TN) (Plasminogen-kringle 4 binding protein).
GN TNA.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6 X CBA; TISSUE=Lung;
RX MEDLINE=95137396; PubMed=7835708;
RA Soerensen C.B., Berglund L., Petersen T.E.;
RT "Cloning of a cDNA encoding murine tetranectin.";
RL Gene 152:243-245 (1995).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=BALB/c;
RX MEDLINE=96116955; PubMed=8563165;
RA Ibaraki K., Kozak C.A., Wewer U.M., Albrechtsen R., Young M.F.;
RT "Mouse tetranectin: cDNA sequence, tissue-specific expression, and
RT chromosomal mapping.";
RL Mamm. Genome 6:693-696 (1995).
RN [3]
RP SEQUENCE FROM N.A.
RC STRAIN=BALB/c; TISSUE=Liver;
RX MEDLINE=98072445; PubMed=9409787;
RA Soerensen C.B., Berglund L., Petersen T.E.;
RT "Cloning of the murine tetranectin gene and 5'-flanking region.";
RL Gene 201:199-202 (1997).
CC -!- FUNCTION: Tetranectin binds to plasminogen and to isolated kringle
CC 4. May be involved in the packaging of molecules destined for
CC exocytosis (By similarity).
CC -!- SUBUNIT: Homotrimer (By similarity).
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- TISSUE SPECIFICITY: Highest expression in lung and skeletal
CC muscle.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC
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CC
CC EMBL; X79199; CAA55791.1; -.
CC EMBL; U08595; AAA96811.1; -.
CC EMBL; X98122; CAA66804.1; -.
CC PIR; JC4031; JC4031.
CC HSSP; P05452; 1TN3.
CC MGD; MGI:104540; Tna.
CC GO; GO:0001501; P:skeletal development; IMP.
CC InterPro; IPR001304; Lectin_C.
CC InterPro; IPR003990; Pancreatins_ac.
CC Pfam; PF00059; lectin_c; 1.
CC PRINTS; PR01504; PNCREATITSAP.
CC SMART; SM00034; CLECT; 1.
CC PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
CC PROSITE; PS00041; C_TYPE_LLECTIN_2; 1.
KW Lectin; Plasma; Signal.
FT SIGNAL 1 21 BY SIMILARITY.
FT CHAIN 22 202 TETRALECTIN.
FT DOMAIN 77 198 C-TYPE LECTIN.
FT DISULFID 71 81 BY SIMILARITY.
FT DISULFID 98 197 BY SIMILARITY.
FT DISULFID 173 189 BY SIMILARITY.
FT CONFLICT 19 20 LT -> VI (IN REF. 2).
FT CONFLICT 84 84 A -> T (IN REF. 2).

FT CONFLICT 180 180 A -> R (IN REF. 2).
FT CONFLICT 188 188 R -> Q (IN REF. 2).
SQ SEQUENCE 202 AA; 22257 MW; 639E7334D58EB04E CRC64;
Query Match 12.4%; Score 138.5; DB 1; Length 202;
Best Local Similarity 26.3%; Pred. No. 2.3e-05;
Matches 41; Conservative 30; Mismatches 56; Indels 29; Gaps 7;
QY 9 QPVCRRGGTQPCYKVIYFHTDTSRLNFEFAKEACRRDGGQLVSESEDEQKLEKFIENL 68
DB 68 QTVCLKGTQVNLKCLLAF---TQPKTFHEASEDCISQGGTLGTTPQSELENEALFEYARHS 124
QY 69 LPDGDGFWIGLRRRREKQSNSTACQDLYAWTD--GSISQFRNWWYVD---EPSCG-SEVCV 122
DB 125 VGNDANIWLGL-----NDMAAEG--AWVDMTGGLLAYKNWETEITTPDGGKAENC- 173
QY 123 VMYHQPSAPAGIGGYPYMFQWDDRCNMKNFNICKYS 158
DB 174 -----AALSGAANGKWFDKCRDQLPYICQFA 200
RESULT 39
LEMI_MACMU
ID LEMI_MACMU STANDARD; PRT; 372 AA.
AC Q95198;
DT 01-NOV-1997 (Rel. 35, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE L-selectin precursor (Lymph node homing receptor) (Leukocyte adhesion
DE molecule-1) (LAM-1) (Leukocyte-endothelial cell adhesion molecule 1)
DE (LECAM1) (CD62L).
GN SELL.
OS Macaca mulatta (Rhesus macaque).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Cercopithecoidea;
OC Cercopithecinae; Macaca.
OX NCBI_TaxID=9544;
RN [1]
RP SEQUENCE FROM N.A.
RA Budman J.I., Fu H., Johnson C.E., Thakur A.B., Berg E.L.,
RA Tsurushita N.;
RL Submitted (NOV-1996) to the EMBL/GenBank/DBJ databases.
CC -!- FUNCTION: Cell surface adhesion protein. Mediate the adherence of
CC lymphocytes to endothelial cells of high endothelial venules in
CC peripheral lymph nodes.
CC -!- SUBCELLULAR LOCATION: Type 1 membrane protein.
CC -!- SIMILARITY: Belongs to the selectin/LECAM family.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC -!- SIMILARITY: Contains 1 EGF-like domain.
CC -!- SIMILARITY: Contains 2 Sushi (SCR) domains.
CC
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CC
CC EMBL; U73730; AAB18246.1; -.
CC HSSP; P14151; 1KJB.
CC InterPro; IPR006209; EGF-like.
CC InterPro; IPR006210; IEGF.
CC InterPro; IPR001304; Lectin_C.
CC InterPro; IPR002396; Selectin.
CC InterPro; IPR000436; Sushi_SCR_CCP.
CC Pfam; PF00008; EGF; 1.
CC Pfam; PF00059; lectin_c; 1.
CC Pfam; PF00084; sushi_2.
CC PRINTS; PR00343; SELECTIN.
CC SMART; SM00032; CCP; 2.
CC SMART; SM00034; CLECT; 1.
CC SMART; SM00181; EGF; 1.

Db 41 YHSEPMWQKARRFCRENYDLDVAIQNAE---IE-YLEKTLPSFSPSYWIGIRK--- 93
 QY 85 KQNSTACQDLAYW--TDGSIQ-FRNWYVDEPS--CGSEVGVVMYKHPSAPAGIGGPYM 139
 Db 94 -----IGGIWTVGNTKSLTQEAENWGDGEPNNKKNKEDCEIYIKRKKDAG----- 140
 QY 140 FQWDDRCNMKNFICKYSDKPAVPSRAEGEETEL 176
 Db 141 -KWNDACHKPKAALCYTASCQFW--SCSGHGECVEI 174

RESULT 41
 LITH BOVIN
 ID LITH BOVIN STANDARD; PRT; 175 AA.
 AC P23132;
 DT 01-NOV-1991 (Rel. 20, Created)
 DT 01-NOV-1991 (Rel. 20, Last sequence update)
 DT 28-FEB-2003 (Rel. 41, Last annotation update)
 DE Lithostathine precursor (Pancreatic stone protein) (PSP) (Pancreatic
 DE thread protein) (PTP) (Islet of langerhans regenerating protein) (REG)
 DE (Islet cells regeneration factor) (ICRF).
 GN PTP.
 OS Bos taurus (Bovine).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
 OC Bovidae; Bovinae; Bos.
 OX NCBI_TaxID=9913;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=90368981; PubMed=2394826;
 RA de la Monte S.M., Ozturk M., Wands J.R.;
 RT "Enhanced expression of an exocrine pancreatic protein in Alzheimer's
 RT disease and the developing human brain.";
 RL J. Clin. Invest. 86:1004-1013(1990).
 RN [2]
 RP SEQUENCE OF 38-138 AND 141-175.
 RX MEDLINE=91197388; PubMed=2085387;
 RA Cai L., Harris W.R., Marshak D.R., Gross J., Crabb J.W.;
 RT "Structural analysis of bovine pancreatic thread protein.";
 RL J. Protein Chem. 9:623-632(1990).
 RN [3]
 RP SEQUENCE OF 38-85 AND 141-175.
 RX MEDLINE=85298214; PubMed=3862086;
 RA Gross J., Brauer A.W., Bringham R.F., Corbett C., Margolies M.N.;
 RT "An unusual bovine pancreatic protein exhibiting pH-dependent
 RT globule-fibril transformation and unique amino acid sequence.";
 RL Proc. Natl. Acad. Sci. U.S.A. 82:5627-5631(1985).
 CC -!- FUNCTION: Might act as an inhibitor of spontaneous calcium
 CC carbonat precipitation.
 CC -!- SUBUNIT: Cleaved to give an A chain and a B chain joined by a
 CC disulfide bond.
 CC -!- TISSUE SPECIFICITY: In pancreatic acinar cells.
 CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
 CC -----
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 CC or send an email to license@isb-sib.ch).
 CC -----
 CC EMBL; M59794; AAA30750.1; -.
 DR PIR; A37194; A37194.
 DR HSSP; P05451; 1QDD.
 DR InterPro; IPR001304; Lectin_C.
 DR InterPro; IPR003990; Pancreatins_ac.
 DR Pfam; PF00059; lectin_c; 1.
 DR PRINTS; PR01504; PNCREATITSAP.
 DR SMART; SM00034; CLECT; 1.
 DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
 DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.

KW Glycoprotein; Signal; Lectin.
 FT SIGNAL 1 26 POTENTIAL.
 FT PROPEP 27 37 POTENTIAL.
 FT CHAIN 38 175 LITHOSTATHINE.
 FT CHAIN 38 138 A CHAIN.
 FT CHAIN 141 175 B CHAIN.
 FT DOMAIN 38 173 C-TYPE LECTIN (LONG FORM).
 FT DISULFID 40 51 BY SIMILARITY.
 FT DISULFID 68 171 BY SIMILARITY.
 FT DISULFID 146 163 BY SIMILARITY.
 FT CONFLICT 84 85 EE -> FF (IN REF. 3).
 SQ SEQUENCE 175 AA; 19334 MW; C270EE70B7E91D6A CRC64;

Query Match 12.2%; Score 136; DB 1; Length 175;
 Best Local Similarity 24.1%; Pred. No. 3.2e-05;
 Matches 41; Conservative 23; Mismatches 64; Indels 42; Gaps 7;

QY 5 LLSQPVCRGT---QPCYKVIYFHTSRRRLNFEEAKEAC-RRDGGQLVSISEDEQKL 60
 Db 33 LPSARISCPGSMAYRSHCYALFKTPKT-----WMDADIACQKRPSTGHLVSLGABESF 87
 QY 61 IEKFIENLPSDGFHWIGLRRRREKQSNSTACQDLAYWTDGSIQFRNWYVDEPSCGSEV 120
 Db 88 VASLVRNLTQSDIWIWL---HDPTEGSEANAGGWEIISNDVLYVAWETD----- 136
 QY 121 CVVMYHQPSAPAGIGGP-----YMFQWDDRCNMKNFICKYSD 159
 Db 137 -----PAAISSPGYCGSLSSSGYL-KWRDHNCNLTNPYVCKFTD 175

RESULT 42
 LITH MOUSE
 ID LITH MOUSE STANDARD; PRT; 165 AA.
 AC P43137;
 DT 01-NOV-1995 (Rel. 32, Created)
 DT 01-NOV-1995 (Rel. 32, Last sequence update)
 DT 28-FEB-2003 (Rel. 41, Last annotation update)
 DE Lithostathine 1 precursor (Pancreatic stone protein 1) (PSP)
 DE (Pancreatic thread protein 1) (PTP) (Islet of langerhans regenerating
 DE protein 1) (REG 1).
 GN REG1.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX STRAIN=C57BL/6J;
 RX MEDLINE=93340209; PubMed=8340418;
 RA Unno M., Yonekura H., Nakagawa K.-I., Watanabe T., Miyashita H.,
 RA Morizumi S., Okamoto H., Itoh T., Teraoka H.;
 RT "Structure, chromosomal localization, and expression of mouse reg
 RT genes, reg I and reg II. A novel type of reg gene, reg II, exists in
 RT the mouse genome.";
 RL J. Biol. Chem. 268:15974-15982(1993).
 CC -!- FUNCTION: Might act as an inhibitor of spontaneous calcium
 CC carbonate precipitation.
 CC -!- TISSUE SPECIFICITY: Expressed only in regenerating islets and
 CC normal exocrine pancreas, but not in normal pancreatic islets.
 CC Expressed strongly in pancreas, moderately in gallbladder, and
 CC weakly in liver.
 CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
 CC -----
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 CC use by non-profit institutions as long as its content is in no way
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 CC or send an email to license@isb-sib.ch).
 CC -----
 CC EMBL; D14010; BAA03111.1; -.
 DR PIR; A47148; A47148.

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DR HSSP; P05451; 1LIT.
DR MGD; MGI:97895; Regl.
DR InterPro; IPR002353; AntifreezeII.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR003990; Pancreatiss_ac.
DR Pfam; PF00059; lectin_C; 1.
DR PRINTS; PR00356; ANTIFREEZEII.
DR PRINTS; PR01504; PNCREATITSAP.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C-TYPE LECTIN_1; 1.
DR PROSITE; PS50041; C-TYPE LECTIN_2; 1.
KW Glycoprotein; Signal; Lectin.
FT SIGNAL 1 21 BY SIMILARITY.
FT CHAIN 22 165 LITHOSTATHINE 1.
FT DOMAIN 33 163 C-TYPE LECTIN (LONG FORM).
FT DISULFID 35 46 BY SIMILARITY.
FT DISULFID 63 161 BY SIMILARITY.
FT DISULFID 136 153 BY SIMILARITY.
FT CARBOHYD 129 129 N-LINKED (GLCNAC...) (POTENTIAL).
SQ SEQUENCE 165 AA; 18518 MW; 2950174AF5D666BA CRC64;

Query Match 12.1%; Score 135; DB 1; Length 165;
Best Local Similarity 26.4%; Pred. No. 3.6e-05;
Matches 37; Conservative 28; Mismatches 51; Indels 24; Gaps 8;

QY 20 CYKVIYFHTSRRLNFEFEAKEACR--DGGQLVLSIESEDEQKLIKFIENL--LPDGDGFWIG 78
Db 46 CY---YF--TEDRLTWADADLFQNNMNSGYLSVLSQABGNFVASLIKESGTTDANVWTG 100

QY 79 LRRREKQSNSTACQDLVATDGSISQFRNWWYVDEPSCGSE--VCVVMYHQPSAPAGIGGP 137
Db 101 L--HDPKRRR-----WHWSGSLFLYKSWATGSPNSNRGYCV-----SLTSNTG-- 144

QY 138 YMFQWNDRCNMKNFICKY 157
Db 145 -YKRWKDDNCDAQSYFVCKF 163

RESULT 43
ACAL ANSAN
ID ACAL_ANSAN STANDARD; PRT; 132 AA.
AC P83300;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Ansoecalcin.
OS Anser anser (Western graylag goose).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Anseriformes; Anatidae; Anser.
OX NCBI_TaxID=8844;
RN [1]
RP SEQUENCE, FUNCTION, SUBUNIT, SUBCELLULAR LOCATION, AND MASS SPECTROMETRY.
RC TISSUE=Eggshell matrix;
RX MEDLINE=22439773; PubMed=12431998;
RA Lakshminarayanan R., Vailiyaveetil S., Rao V.S., Kini R.M.;
RT "Purification, characterization, and in vitro mineralization studies of a novel goose eggshell matrix protein, ansocalcin.";
RL J. Biol. Chem. 278:2928-2936(2003).
CC -!- FUNCTION: Induces spherical aggregates of calcite crystals in vitro. Believed to play an active role in the eggshell calcification.
CC -!- SUBUNIT: Homodimer or homotrimer.
CC -!- SUBCELLULAR LOCATION: Eggshell matrix. May be present in the shell glands on the walls of oviduct and incorporated into the shell structure during its formation.
CC -!- MASS SPECTROMETRY: MW=15342; METHOD=Electrospray.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
DR InterPro; IPR002353; AntifreezeII.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR003990; Pancreatiss_ac.
DR Pfam; PF00059; lectin_C; 1.
DR PRINTS; PR00356; ANTIFREEZEII.
```

```
DR PRINTS; PR01504; PNCREATITSAP.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C-TYPE LECTIN_1; 1.
DR PROSITE; PS50041; C-TYPE LECTIN_2; 1.
KW Lectin.
FT DOMAIN 1 132 C-TYPE LECTIN (LONG FORM) (BY SIMILARITY).
FT DISULFID 3 14 BY SIMILARITY.
FT DISULFID 31 128 BY SIMILARITY.
FT DISULFID 103 120 BY SIMILARITY.
SQ SEQUENCE 132 AA; 15347 MW; 35CE42EA4572E6B7 CRC64;

Query Match 12.1%; Score 134.5; DB 1; Length 132;
Best Local Similarity 26.6%; Pred. No. 3.1e-05;
Matches 38; Conservative 21; Mismatches 55; Indels 29; Gaps 7;

QY 20 CYKVIYFHTSRRLNFEFEAKEACR--RDGGQLVLSIESEDEQKLIKFIENL--LPDGDGDF 75
Db 14 CYG--YF---GQELTWKAEAWCKVIHAGCHLASLHSPHEAAVARFIAKFQRRREEDNV 68

QY 76 WIGLRRREKQSNSTACQDLVATDGSISQFRNWWYVDEPSCGSEVCVVMYHQPSAPAGIG 135
Db 69 WIGLHHWNQAR-----VWIDGSKKRYSAWDDDELPRG-KYCTVLE-----G 108

QY 136 GPYMFQWNDRCNMKNFICKY 158
Db 109 SSGFMWEDNACSERPNFVCKY 131

RESULT 44
LEML PONPY
ID LEML_PONPY STANDARD; PRT; 372 AA.
AC Q95235;
DT 01-NOV-1997 (Rel. 35, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE L-selectin precursor (Lymph node homing receptor) (Leukocyte adhesion molecule-1) (LAM-1) (Leukocyte-endothelial cell adhesion molecule 1) (LECAM1) (CD62L).
GN SELL.
OS Pongo pygmaeus (Orangutan).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pongo.
OX NCBI_TaxID=9600;
RN [1]
RP SEQUENCE FROM N.A.
RA Budman J.I., Fu H., Johnson C.E., Thakur A.B., Berg E.L.,
RA Tsurushita N.;
RL Submitted (NOV-1996) to the EMBL/GenBank/DBJ databases.
CC -!- FUNCTION: Cell surface adhesion protein. Mediate the adherence of lymphocytes to endothelial cells of high endothelial venules in peripheral lymph nodes.
CC -!- SUBCELLULAR LOCATION: Type 1 membrane protein.
CC -!- SIMILARITY: Belongs to the selectin/LECAM family.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC -!- SIMILARITY: Contains 1 EGF-like domain.
CC -!- SIMILARITY: Contains 2 Sushi (SCR) domains.
CC -----
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CC -----
CC EMBL; U73729; AAB18247.1; -.
CC HSSP; P14151; 1KJB.
CC InterPro; IPR006209; EGF like.
CC InterPro; IPR006210; IEGF.
CC InterPro; IPR001304; Lectin_C.
CC InterPro; IPR002396; Selectin.
CC InterPro; IPR000436; Sushi_SCR_CCP.
```


Db 227 HTNPF--NTWIGL-----TDSGSKWVDGTDYRHNKYKWAVTQPDNWHGHELGG 274
QY 118 SEVCVMYHQPAPAGIGGYPMPQWDDRCNMKNFNICKYSDEKPAVPSREAGE 172
Db 275 SEDCDEV--QPDG-----RWNDDFCLQYRWVCE-----KRRNATGE 309

RESULT 49
LEMI_HUMAN
ID LEMI_HUMAN STANDARD; PRT; 372 AA.
AC P14151; P15023;
DT 01-JAN-1990 (Rel. 13, Created)
DT 01-FEB-1991 (Rel. 17, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE L-selectin precursor (Lymph node homing receptor) (Leukocyte adhesion molecule-1) (LAM-1) (Leukocyte surface antigen Leu-8) (TQ1) (gp90-MEL) (Leukocyte-endothelial cell adhesion molecule 1) (LECAM1) (CD62L).
GN SELL OR LYAM1 OR LNHR.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OC NCBI_TaxID=9606;
OX [1]
RN
RP SEQUENCE FROM N.A.
RX MEDLINE=89315837; PubMed=2664786;
RA Siegelman M.H., Weissman I.L.;
RT "Human homologue of mouse lymph node homing receptor: evolutionary conservation at tandem cell interaction domains."
RL Proc. Natl. Acad. Sci. U.S.A. 86:5562-5566(1989).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Tonsil;
RX MEDLINE=89310350; PubMed=2473156;
RA Tedder T.F., Isaacs C.M., Ernst T.J., Demetri G.D., Adler D.A., Distèche C.M.;
RT "Isolation and chromosomal localization of cDNAs encoding a novel human lymphocyte cell surface molecule, LAM-1. Homology with the mouse lymphocyte homing receptor and other human adhesion proteins.";
RL J. Exp. Med. 170:123-133(1989).
RN [3]
RP SEQUENCE FROM N.A.
RX MEDLINE=90044046; PubMed=2509939;
RA Camerini D., James S.P., Stamenkovic I., Seed B.;
RT "Leu-8/TQ1 is the human equivalent of the Mel-14 lymph node homing receptor.";
RL Nature 342:78-82(1989).
RN [4]
RP SEQUENCE FROM N.A.
RX MEDLINE=89308881; PubMed=2663882;
RA Bowen B.R., Nguyen T., Lasky L.A.;
RT "Characterization of a human homologue of the murine peripheral lymph node homing receptor.";
RL J. Cell Biol. 109:421-427(1989).
RN [5]
RP SEQUENCE FROM N.A.
RX MEDLINE=90243637; PubMed=1692315;
RA Ord D.C., Ernst T.J., Zhou L.J., Rambaldi A., Spertini O., Griffin J., Tedder T.F.;
RT "Structure of the gene encoding the human leukocyte adhesion molecule-1 (TQ1, Leu-8) of lymphocytes and neutrophils.";
RL J. Biol. Chem. 265:7760-7767(1990).
RN [6]
RP SEQUENCE FROM N.A.
RA Rieder M.J., Carrington D.P., da Ponte S.H., Hastings N.C., Ahearn M.O., Kuldanek S.A., Rajkumar N., Toth E.J., Yi Q., Nickerson D.A.;
RL Submitted (FEB-2003) to the EMBL/GenBank/DBJ databases.
RN [7]
RP 3D-STRUCTURE MODELING.
RX MEDLINE=96074584; PubMed=7488174;
RA Bajorath J., Aruffo A.;
RT "A template for generation and comparison of three-dimensional

selectin models.";
RL Biochem. Biophys. Res. Commun. 216:1018-1023(1995).
CC -!- FUNCTION: Cell surface adhesion protein. Mediate the adherence of lymphocytes to endothelial cells of high endothelial venules in peripheral lymph nodes.
CC -!- SUBCELLULAR LOCATION: Type I membrane protein.
CC -!- SIMILARITY: Belongs to the selectin/LECAM family.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC -!- SIMILARITY: Contains 1 EGF-like domain.
CC -!- SIMILARITY: Contains 2 Sushi (SCR) domains.
CC -!- DATABASE: NAME=PROW; NOTE=CD guide CD62L entry;
CC WWW="http://www.ncbi.nlm.nih.gov/prow/cd/cd62l.htm".
CC -----
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CC -----
CC EMBL; M25280; AAC63053.1; -
CC EMBL; X16150; CAA34275.1; -
CC EMBL; X17519; CAB43536.1; -
CC EMBL; X17519; CAB43537.1; ALT SEQ.
CC EMBL; X16070; CAA34203.1; ALT SEQ.
CC EMBL; M32414; AAB60700.1; -
CC EMBL; M32406; AAB60700.1; JOINED.
CC EMBL; M32407; AAB60700.1; JOINED.
CC EMBL; M32408; AAB60700.1; JOINED.
CC EMBL; M32409; AAB60700.1; JOINED.
CC EMBL; M32410; AAB60700.1; JOINED.
CC EMBL; M32411; AAB60700.1; JOINED.
CC EMBL; M32412; AAB60700.1; JOINED.
CC EMBL; M32413; AAB60700.1; JOINED.
CC EMBL; AY233976; AA048272.1; -
CC PDB; 1KJB; 03-APR-96.
CC GlycoSuiteDB; P14151; -
CC Genew; HGNC:10720; SELL.
CC MIM; 153240; -
CC GO; GO:0005887; C:integral to plasma membrane; TAS.
CC GO; GO:0008337; F:selectin; TAS.
CC GO; GO:0007155; P:cell adhesion; TAS.
CC InterPro; IPR006209; EGF like.
CC InterPro; IPR006210; IEGF.
CC InterPro; IPR001304; Lectin C.
CC InterPro; IPR002396; Selectin.
CC InterPro; IPR000436; Sushi_SCR_CCP.
CC Pfam; PF00008; EGF; 1.
CC Pfam; PF00059; lectin_c; 1.
CC Pfam; PF00084; sushi; 2.
CC PRINTS; PR00343; SELECTIN.
CC SMART; SM00032; CCP; 2.
CC SMART; SM00034; CLECT; 1.
CC SMART; SM00181; EGF; 1.
CC PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
CC PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
CC PROSITE; PS00022; EGF_1; 1.
CC PROSITE; PS01186; EGF_2; 1.
CC PROSITE; PS50026; EGF_3; 1.
KW Cell adhesion; Transmembrane; Glycoprotein; EGF-like domain; Lectin;
KW Selectin; Signal; Sushi; Repeat; 3D-structure.
FT SIGNAL 1 28
FT PROPEP 29 38
FT CHAIN 39 372
FT DOMAIN 39 332
FT TRANSMEM 333 355
FT DOMAIN 356 372
FT DOMAIN 55 155
FT DOMAIN 156 192
FT DOMAIN 196 255
FT DOMAIN 258 317
FT DISULFID 57 155
L-SELECTIN.
EXTRACELLULAR (POTENTIAL).
POTENTIAL.
CYTOPLASMIC (POTENTIAL).
C-TYPE LECTIN (SHORT FORM).
EGF-LIKE.
SUSHI 1.
SUSHI 2.
BY SIMILARITY.


```
FT DISULFID 128 147 BY SIMILARITY.
FT DISULFID 160 171 BY SIMILARITY.
FT DISULFID 165 180 BY SIMILARITY.
FT DISULFID 182 191 BY SIMILARITY.
FT DISULFID 197 241 BY SIMILARITY.
FT DISULFID 227 254 BY SIMILARITY.
FT DISULFID 259 303 BY SIMILARITY.
FT DISULFID 289 316 BY SIMILARITY.
FT CARBOHYD 60 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 104 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 177 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 232 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 246 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 271 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 311 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CONFLICT 37 D -> Y (IN REF. 4).
FT CONFLICT 178 Y -> H (IN REF. 4).
FT CONFLICT 193 F -> L (IN REF. 1 AND 4).
FT CONFLICT 213 P -> S (IN REF. 3).
FT CONFLICT 214 L -> F (IN REF. 4).
FT CONFLICT 218 SFS -> NFN (IN REF. 2).
FT CONFLICT 242 G -> E (IN REF. 2).
FT STRAND 40 43
FT STRAND 48 48
FT HELIX 50 60
FT STRAND 63 64
FT HELIX 70 79
FT STRAND 87 89
FT STRAND 91 94
FT TURN 95 96
FT TURN 97 100
FT TURN 101 103
FT STRAND 106 106
FT TURN 109 111
FT STRAND 114 114
FT TURN 116 117
FT TURN 124 125
FT STRAND 128 131
FT TURN 133 134
FT TURN 139 140
FT STRAND 142 145
FT TURN 147 148
FT STRAND 151 157
SQ SEQUENCE 372 AA; 42187 MW; 6EA9918BCA2D3643 CRC64;

Query Match 11.9%; Score 132.5; DB 1; Length 372;
Best Local Similarity 27.4%; Pred. No. 0.00017;
Matches 43; Conservative 33; Mismatches 52; Indels 29; Gaps 9;

QY 26 FHDTSRRLNFEAEKACRRDGGQLVSIHSEDEQKLEKFIENLLP-SDGDFWIGLERREE 84
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 41 YHYSEKPMWQRRARFCRDNYTDLVAIQNAE---IE-YLEKTLFPRSYYWIGIRK--- 93
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 85 KQSNSTACQDLVAV--TDGSIS-QFRNRYVDEPS--CGSEVCVVMYHQPAPAGIGGPYM 139
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 94 -----IGGIWTWGTINKSLTSEAEENWGDGEPNKKKEDCVELIYIKRNKDAG----- 140
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 140 FQWDDRCNMKNFTCKYSDEKPAVPSREASGEETEL 176
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 141 -KWDDACHKLKALCYTASCQPW--SCSGHGECVEI 174
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 50
LEMI_PANTR
ID LEMI_PANTR STANDARD; PRT; 372 AA.
AC Q95237;
DT 01-NOV-1997 (Rel. 35, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 15-MAR-2004 (Rel. 43, Last annotation update)
DE L-selectin precursor (lymph node homing receptor) (Leukocyte adhesion
DE molecule-1) (LAM-1) (Leukocyte-endothelial cell adhesion molecule 1)
DE (LECAM1) (CD62L).
GN SELL.
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```
OS Pan troglodytes (Chimpanzee).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pan.
OX NCBI_TaxID=9598;
RN [1]
RP SEQUENCE FROM N.A.
RA Budman J.I., Fu H., Johnson C.E., Thakur A.B., Berg E.L.,
RA Tsurushita N.;
RT "Cloning of the cDNA encoding L-selectin from nonhuman primates.";
RL Submitted (NOV-1996) to the EMBL/GenBank/DBJ databases.
CC -!- FUNCTION: Cell surface adhesion protein. Mediate the adherence
CC of lymphocytes to endothelial cells of high endothelial
CC venules in peripheral lymph nodes.
CC -!- SUBCELLULAR LOCATION: Type I membrane protein.
CC -!- SIMILARITY: Belongs to the selectin/LECAM family.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC -!- SIMILARITY: Contains 1 EGF-like domain.
CC -!- SIMILARITY: Contains 2 Sushi (SCR) domains.
CC -----
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See http://www.isb-sib.ch/
CC or send an email to license@isb-sib.ch).
CC -----
DR EMBL; U73728; AAB18248.1; -.
DR HSSP; P14151; 1KJB.
DR InterPro; IPR006209; EGF like.
DR InterPro; IPR006210; IEGF.
DR InterPro; IPR001304; Lectin C.
DR InterPro; IPR002396; Selectin.
DR InterPro; IPR000436; Sushi_SCR_CCP.
DR Pfam; PF00008; EGF; 1.
DR Pfam; PF00059; lectin_c; 1.
DR Pfam; PF00084; sushi; 2.
DR PRINTS; PR00343; SELECTIN.
DR SMART; SM00032; CCP; 2.
DR SMART; SM00034; CLECT; 1.
DR SMART; SM00181; EGF; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
DR PROSITE; PS00041; C_TYPE_LLECTIN_2; 1.
DR PROSITE; PS00022; EGF_1; 1.
DR PROSITE; PS01186; EGF_2; 1.
DR PROSITE; PS50026; EGF_3; 1.
KW Cell adhesion; Transmembrane; Glycoprotein; EGF-like domain; Lectin;
KW Selectin; Signal; Sushi; Repeat.
FT SIGNAL 1 28 BY SIMILARITY.
FT PROPEP 29 38 BY SIMILARITY.
FT CHAIN 39 372 L-SELECTIN.
FT DOMAIN 39 332 EXTRACELLULAR (POTENTIAL).
FT TRANSMEM 333 355 POTENTIAL.
FT DOMAIN 356 372 CYTOPLASMIC (POTENTIAL).
FT DOMAIN 55 155 C-TYPE LECTIN (SHORT FORM).
FT DOMAIN 156 192 EGF-LIKE.
FT DOMAIN 196 255 SUSHI 1.
FT DOMAIN 258 317 SUSHI 2.
FT DISULFID 57 155 BY SIMILARITY.
FT DISULFID 128 147 BY SIMILARITY.
FT DISULFID 160 171 BY SIMILARITY.
FT DISULFID 165 180 BY SIMILARITY.
FT DISULFID 182 191 BY SIMILARITY.
FT DISULFID 197 241 BY SIMILARITY.
FT DISULFID 227 254 BY SIMILARITY.
FT DISULFID 259 303 BY SIMILARITY.
FT DISULFID 289 316 BY SIMILARITY.
FT CARBOHYD 60 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 104 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 177 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 216 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 232 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 246 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT -----
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 9, 2004, 22:36:28 ; Search time 32 Seconds
(without alignments)
332.342 Million cell updates/sec

Title: US-09-887-855-2_COPY_22_227
Perfect score: 1115
Sequence: 1 ATGRLLSGQPVCRCGGTQRPC.....EEDAKTFKESREALNLAY 206

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 50 summaries

Database : Issued Patents AA:*
1: /cgn2_6/ptodata/2/iaa/5A COMB.pep:*
2: /cgn2_6/ptodata/2/iaa/5B COMB.pep:*
3: /cgn2_6/ptodata/2/iaa/6A COMB.pep:*
4: /cgn2_6/ptodata/2/iaa/6B COMB.pep:*
5: /cgn2_6/ptodata/2/iaa/PCTUS COMB.pep:*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	1105	99.1	374	4	US-09-489-847-166 Sequence 166, App
2	1101	98.7	382	4	US-09-907-794A-137 Sequence 137, App
3	1101	98.7	382	4	US-09-905-125A-137 Sequence 137, App
4	1101	98.7	382	4	US-09-902-775A-137 Sequence 137, App
5	939.5	84.3	260	4	US-09-638-203-3 Sequence 3, Appli
6	561.5	50.4	273	4	US-09-638-203-2 Sequence 2, Appli
7	240	21.5	81	4	US-09-489-847-325 Sequence 325, App
8	240	21.5	82	4	US-09-489-847-234 Sequence 234, App
9	240	21.5	115	4	US-09-489-847-324 Sequence 324, App
10	182	16.3	1456	4	US-09-976-594-168 Sequence 168, App
11	178.5	16.0	1455	3	US-08-840-062-5 Sequence 5, Appli
12	176.5	15.8	1479	3	US-08-840-062-4 Sequence 4, Appli
13	174	15.6	1257	1	US-08-340-428B-49 Sequence 49, Appl
14	174	15.6	2409	6	5180808-2 Patent No. 5180808
15	170.5	15.3	1479	3	US-08-840-062-2 Sequence 2, Appli
16	152	13.6	912	5	PCT-US95-03747-2 Sequence 2, Appli
17	151	13.5	197	4	US-09-602-877A-99 Sequence 99, Appl
18	149.5	13.4	455	4	US-09-866-028-50 Sequence 50, Appl
19	149	13.4	174	1	US-07-641-971B-1 Sequence 1, Appli
20	149	13.4	174	1	US-07-781-248A-1 Sequence 1, Appli
21	149	13.4	320	1	US-08-365-103B-10 Sequence 10, Appl
22	149	13.4	321	1	US-08-365-103B-8 Sequence 8, Appli
23	148.5	13.3	652	2	US-08-751-305-2 Sequence 2, Appli
24	144.5	13.0	404	4	US-09-517-605-2 Sequence 2, Appli
25	143.5	12.9	372	2	US-08-513-278-4 Sequence 4, Appli
26	143.5	12.9	372	6	5514582-4 Patent No. 5514582
27	142	12.7	1487	3	US-08-840-062-7 Sequence 7, Appli

28	141.5	12.7	125	3	US-08-722-126A-7 Sequence 7, Appli
29	141.5	12.7	125	5	PCT-US95-04258-7 Sequence 7, Appli
30	141.5	12.7	287	1	US-08-365-103B-4 Sequence 4, Appli
31	141.5	12.7	300	1	US-08-365-103B-6 Sequence 6, Appli
32	141.5	12.7	327	1	US-08-365-103B-2 Sequence 2, Appli
33	138.5	12.4	117	6	5514582-7 Patent No. 5514582
34	138.5	12.4	119	1	US-08-340-539A-12 Sequence 12, Appl
35	137.5	12.3	110	6	5514582-12 Patent No. 5514582
36	137.5	12.3	123	6	5514582-19 Patent No. 5514582
37	137.5	12.3	492	4	US-09-724-864-39 Sequence 39, Appl
38	135	12.1	238	3	US-09-111-470-8 Sequence 8, Appli
39	134.5	12.1	128	4	US-09-535-521-8 Sequence 8, Appli
40	134.5	12.1	139	4	US-09-535-521-11 Sequence 11, Appl
41	134.5	12.1	141	4	US-09-535-521-14 Sequence 14, Appl
42	134.5	12.1	187	4	US-09-535-521-17 Sequence 17, Appl
43	134.5	12.1	208	4	US-09-535-521-20 Sequence 20, Appl
44	134.5	12.1	292	4	US-09-535-521-2 Sequence 2, Appli
45	134.5	12.1	292	4	US-09-535-521-5 Sequence 5, Appli
46	133.5	12.0	110	6	5514582-9 Patent No. 5514582
47	133.5	12.0	119	1	US-08-340-539A-13 Sequence 13, Appl
48	133.5	12.0	133	1	US-07-893-929A-9 Sequence 9, Appli
49	133.5	12.0	133	5	PCT-US92-10344-9 Sequence 9, Appli
50	133.5	12.0	287	3	US-09-111-470-6 Sequence 6, Appli

ALIGNMENTS

RESULT 1
US-09-489-847-166
; Sequence 166, Application US/09489847
; Patent No. 6476195
; GENERAL INFORMATION:
; APPLICANT: Rosen et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: PZ031PI
; CURRENT APPLICATION NUMBER: US/09/489,847
; CURRENT FILING DATE: 2000-01-24
; EARLIER APPLICATION NUMBER: PCT/US99/17130
; EARLIER FILING DATE: 1999-07-29
; EARLIER APPLICATION NUMBER: 60/094,657
; EARLIER FILING DATE: 1998-07-30
; EARLIER APPLICATION NUMBER: 60/095,486
; EARLIER FILING DATE: 1998-08-05
; EARLIER APPLICATION NUMBER: 60/096,319
; EARLIER FILING DATE: 1998-08-12
; EARLIER APPLICATION NUMBER: 60/095,454
; EARLIER FILING DATE: 1998-08-06
; EARLIER APPLICATION NUMBER: 60/095,455
; EARLIER FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 166
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (84)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (112)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-489-847-166

Query Match 99.1%; Score 1105; DB 4; Length 374;
Best Local Similarity 99.0%; Pred. No. 1.9e-107;
Matches 204; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 ATGRLLSGQPVCRCGGTQRPCVKVIYFHDTSRRLNFEEAKEACRRDGGQLVSISEDEQKL 60
DB 22 ATGRLLSGQPVCRCGGTQRPCVKVIYFHDTSRRLNFEEAKEACRRDGGQLVSISEDEQKL 81

QY 61 IEKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEV 120
Db 82 IEXFIENLLPSDGFWIGLRRREKQSNSTXCQDLYAWTDGSIQFRNWWYVDEPSCGSEV 141
QY 121 CVVMYHQPSAPAGIGGPFYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGETELTTPV 180
Db 142 CVVMYHQPSAPAGIGGPFYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGETELTTPV 201
QY 181 LPETQEDAKKTFKESREAAALNLAY 206
Db 202 LPETQEDAKKTFKESREAAALNLAY 227

RESULT 2
US-09-907-794A-137
; Sequence 137, Application US/09907794A
; Patent No. 6635468
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,794A
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02

Query Match 98.7%; Score 1101; DB 4; Length 382;
Best Local Similarity 96.3%; Pred. No. 5.2e-107;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
QY 1 ATGRLLS-----GQVCRGGGTQPCYKVIYFHDTSRRLNFEAKEACRRDGGQLVSI 52
Db 22 ATGRLLSASDLRLRGQPVCRGGGTQPCYKVIYFHDTSRRLNFEAKEACRRDGGQLVSI 81
QY 53 ESEDEQKLIKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVD 112
Db 82 ESEDEQKLIKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVD 141
QY 113 EPSCGSEVCVMYHQPSAPAGIGGPFYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGE 172
Db 142 EPSCGSEVCVMYHQPSAPAGIGGPFYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGE 201
QY 173 ETELTPVLPEETQEDAKKTFKESREAAALNLAY 206
Db 202 ETELTPVLPEETQEDAKKTFKESREAAALNLAY 235

RESULT 3
US-09-905-125A-137
; Sequence 137, Application US/09905125A
; Patent No. 6664376
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,125A
; CURRENT FILING DATE: 2001-07-12

;; PRIOR APPLICATION NUMBER: PCT/US00/04414
;; PRIOR FILING DATE: 2000-02-22
;; PRIOR APPLICATION NUMBER: US 60/143,048
;; PRIOR FILING DATE: 1999-07-07
;; PRIOR APPLICATION NUMBER: US 60/145,698
;; PRIOR FILING DATE: 1999-07-26
;; PRIOR APPLICATION NUMBER: US 60/146,222
;; PRIOR FILING DATE: 1999-07-28
;; PRIOR APPLICATION NUMBER: PCT/US99/20594
;; PRIOR FILING DATE: 1999-09-08
;; PRIOR APPLICATION NUMBER: PCT/US99/20944
;; PRIOR FILING DATE: 1999-09-13
;; PRIOR APPLICATION NUMBER: PCT/US99/21090
;; PRIOR FILING DATE: 1999-09-15
;; PRIOR APPLICATION NUMBER: PCT/US99/21547
;; PRIOR FILING DATE: 1999-09-15
;; PRIOR APPLICATION NUMBER: PCT/US99/23089
;; PRIOR FILING DATE: 1999-10-05
;; PRIOR APPLICATION NUMBER: PCT/US99/28214
;; PRIOR FILING DATE: 1999-11-29
;; PRIOR APPLICATION NUMBER: PCT/US99/28313
;; PRIOR FILING DATE: 1999-11-30
;; PRIOR APPLICATION NUMBER: PCT/US99/28564
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/28565
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/30095
;; PRIOR FILING DATE: 1999-12-16
;; PRIOR APPLICATION NUMBER: PCT/US99/30911
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US99/30999
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US00/00219
;; NUMBER OF SEQ ID NOS: 423
;; SEQ ID NO 137
;; LENGTH: 382
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-09-905-125A-137

Query Match 98.7%; Score 1101; DB 4; Length 382;

Best Local Similarity 96.3%; Pred. No. 5.2e-107;

Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQPVCRGGTQPCYKVIYFHDTSRRLNFEFAKEACRRDGGQLVSI 52
Db 22 ATGRLLSASDLRLRGQGPVCRGGTQPCYKVIYFHDTSRRLNFEFAKEACRRDGGQLVSI 81
QY 53 ESEDEQKLEKFIENLLPSDGFWIGLRRREEKQSNSTACODLYAWTDGSIQFRNWXVD 112
Db 82 ESEDEQKLEKFIENLLPSDGFWIGLRRREEKQSNSTACODLYAWTDGSIQFRNWXVD 141
QY 113 EPSCGSEVCVMYHQPAPAGIGGPFYMFQWDDRCNMKNFNCKYSDEKPAVPSREAEGE 172
Db 142 EPSCGSEVCVMYHQPAPAGIGGPFYMFQWDDRCNMKNFNCKYSDEKPAVPSREAEGE 201
QY 173 ETELTTPVLPEETQEDAKKTFKESREAALNLAY 206
Db 202 ETELTTPVLPEETQEDAKKTFKESREAALNLAY 235

RESULT 4

US-09-902-775A-137

; Sequence 137, Application US/09902775A

; Patent No. 6686451

; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.

; APPLICANT: Ashkenazi, Avi

; APPLICANT: Botstein, David

; APPLICANT: Desnoyers, Luc

; APPLICANT: Eaton, Dan L.

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14

; CURRENT APPLICATION NUMBER: US/09/902,775A

; CURRENT FILING DATE: 2001-07-10

; PRIOR APPLICATION NUMBER: PCT/US00/04414

; PRIOR FILING DATE: 2000-02-22

; PRIOR APPLICATION NUMBER: US 60/143,048

; PRIOR FILING DATE: 1999-07-07

; PRIOR APPLICATION NUMBER: US 60/145,698

; PRIOR FILING DATE: 1999-07-26

; PRIOR APPLICATION NUMBER: US 60/146,222

; PRIOR FILING DATE: 1999-07-28

; PRIOR APPLICATION NUMBER: PCT/US99/20594

; PRIOR FILING DATE: 1999-09-08

; PRIOR APPLICATION NUMBER: PCT/US99/20944

; PRIOR FILING DATE: 1999-09-13

; PRIOR APPLICATION NUMBER: PCT/US99/21090

; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/21547

; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/23089

; PRIOR FILING DATE: 1999-10-05

; PRIOR APPLICATION NUMBER: PCT/US99/28214

; PRIOR FILING DATE: 1999-11-29

; PRIOR APPLICATION NUMBER: PCT/US99/28313

; PRIOR FILING DATE: 1999-11-30

; PRIOR APPLICATION NUMBER: PCT/US99/28564

; PRIOR FILING DATE: 1999-12-02

; PRIOR APPLICATION NUMBER: PCT/US99/28565

; PRIOR FILING DATE: 1999-12-02

; PRIOR APPLICATION NUMBER: PCT/US99/30095

; PRIOR FILING DATE: 1999-12-16

; PRIOR APPLICATION NUMBER: PCT/US99/30911

; PRIOR FILING DATE: 1999-12-20

; PRIOR APPLICATION NUMBER: PCT/US99/30999

; PRIOR FILING DATE: 1999-12-20

; PRIOR APPLICATION NUMBER: PCT/US00/00219

; PRIOR FILING DATE: 2000-01-05

; NUMBER OF SEQ ID NOS: 423

; SEQ ID NO 137

; LENGTH: 382

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-902-775A-137

Query Match 98.7%; Score 1101; DB 4; Length 382;

Best Local Similarity 96.3%; Pred. No. 5.2e-107;

Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQPVCRGGTQPCYKVIYFHDTSRRLNFEFAKEACRRDGGQLVSI 52

Db 22 ATGRLLSASDLRLRGQGPVCRGGTQPCYKVIYFHDTSRRLNFEFAKEACRRDGGQLVSI 81

Qy 53 ESEDEQKLEKFIENLLPSDGFWIGLRRRREKQSNSTACQDLYAWTDGSIQFRNYYVD 112
Db 82 ESEDEQKLEKFIENLLPSDGFWIGLRRRREKQSNSTACQDLYAWTDGSIQFRNYYVD 141
Qy 113 EPSCGSEVCVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGE 172
Db 142 EPSCGSEVCVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGE 201
Qy 173 ETELTPVLPEETQEDAKKTFKESREAAALNLAY 206
Db 202 ETELTPVLPEETQEDAKKTFKESREAAALNLAY 235
RESULT 5
US-09-638-203-3
; Sequence 3, Application US/09638203
; Patent No. 6602501
; GENERAL INFORMATION:
; APPLICANT: Daniel E.H. Afar
; APPLICANT: Rene S. Hubert
; APPLICANT: Aya Jakobovits
; APPLICANT: Arthur B. Raitano
; TITLE OF INVENTION: NOVEL C-TYPE LECTIN TRANSMEMBRANE
; TITLE OF INVENTION: ANTIGEN EXPRESSED IN HUMAN PROSTATE CANCER AND USES THEREOF
; FILE REFERENCE: 129.20USU1
; CURRENT APPLICATION NUMBER: US/09/638,203
; CURRENT FILING DATE: 2000-08-11
; PRIOR APPLICATION NUMBER: 60/148,935
; PRIOR FILING DATE: 1999-08-12
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 260
; TYPE: PRT
; ORGANISM: Hamster
US-09-638-203-3
Query Match 84.3%; Score 939.5; DB 4; Length 260;
Best Local Similarity 85.8%; Pred. No. 2.5e-90;
Matches 175; Conservative 9; Mismatches 19; Indels 1; Gaps 1;
Qy 4 RLLSGQPVCRGGTQRPCYKVIYFHDTSRRLNFEFAKEACRRDGGQLVSISEDEQKLEK 63
Db 1 RLLSGQLVCRGGTRRPCYKVIYFHDFAQRLNFEFAKEACRRDGGQLVSIETEDQRLIEK 60
Qy 64 FIENLLPSDGFWIGLRRRREKQSNSTACQDLYAWTDGSIQFRNYYVDEPSCGSEVCV 123
Db 61 FIENLLASDGFWIGLRRLEVKVQNTACQDLYAWTDGSIQFRNYYVDEPSCGSEVCV 120
Qy 124 MYHQPSAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPA-VPSREAEGEETELTPVLP 162
Db 121 MYHQPSAPPGIGGPPYMFQWDDRCNMKNFICKYADEKPSSTPSIRPGGEATEPPTPVL 160
Qy 183 EETQEDAKKTFKESREAAALNLAY 206
Db 181 EETQEDTKETFKESREAAALNLAY 204

RESULT 6
US-09-638-203-2
; Sequence 2, Application US/09638203
; Patent No. 6602501
; GENERAL INFORMATION:
; APPLICANT: Daniel E.H. Afar
; APPLICANT: Rene S. Hubert
; APPLICANT: Aya Jakobovits
; APPLICANT: Arthur B. Raitano
; TITLE OF INVENTION: NOVEL C-TYPE LECTIN TRANSMEMBRANE
; TITLE OF INVENTION: ANTIGEN EXPRESSED IN HUMAN PROSTATE CANCER AND USES THEREOF
; FILE REFERENCE: 129.20USU1
; CURRENT APPLICATION NUMBER: US/09/638,203
; CURRENT FILING DATE: 2000-08-11
; PRIOR APPLICATION NUMBER: 60/148,935

; PRIOR FILING DATE: 1999-08-12
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-09-638-203-2
Query Match 50.4%; Score 561.5; DB 4; Length 273;
Best Local Similarity 60.1%; Pred. No. 1e-50;
Matches 101; Conservative 25; Mismatches 35; Indels 7; Gaps 3;
Qy 4 RLLSGQPVCRGGTQRPCYKVIYFHDTSRRLNFEFAKEACRRDGGQLVSISEDEQKLEK 63
Db 23 RVVSGQKVCFADEFKHPCKYKMAFFHELSSRVSFQEARLACESEGGVLLSLENEAEQKLIES 82
Qy 64 FIENLLP-----SDGDFWIGLRRRREKQSNSTACQDLYAWTDGSIQFRNYYVDEPSCGS 118
Db 83 MLQNLTKPGTGISDGDGFWIGLWRNGDGT-SGACPDLYQWSDGSGNSQYRNWYTDPEPCGS 141
Qy 119 EVCVVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFICKYSDE-KPAVP 165
Db 142 EKCVMYHQPTANPGLGGPYLYQWDDRCNMKNYICKYEPEINPTAP 189
RESULT 7
US-09-489-847-325
; Sequence 325, Application US/09489847
; Patent No. 6476195
; GENERAL INFORMATION:
; APPLICANT: Rosen et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: PZ031P1
; CURRENT APPLICATION NUMBER: US/09/489,847
; CURRENT FILING DATE: 2000-01-24
; EARLIER APPLICATION NUMBER: PCT/US99/17130
; EARLIER FILING DATE: 1999-07-29
; EARLIER APPLICATION NUMBER: 60/094,657
; EARLIER FILING DATE: 1998-07-30
; EARLIER APPLICATION NUMBER: 60/095,486
; EARLIER FILING DATE: 1998-08-05
; EARLIER APPLICATION NUMBER: 60/096,319
; EARLIER FILING DATE: 1998-08-12
; EARLIER APPLICATION NUMBER: 60/095,454
; EARLIER FILING DATE: 1998-08-06
; EARLIER APPLICATION NUMBER: 60/095,455
; EARLIER FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 325
; LENGTH: 81
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-489-847-325
Query Match 21.5%; Score 240; DB 4; Length 81;
Best Local Similarity 100.0%; Pred. No. 9.1e-18;
Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 ATGRLLSGQPVCRGGTQRPCYKVIYFHDTSRRLNFEFAKEACRR 44
Db 22 ATGRLLSGQPVCRGGTQRPCYKVIYFHDTSRRLNFEFAKEACRR 65
RESULT 8
US-09-489-847-234
; Sequence 234, Application US/09489847
; Patent No. 6476195
; GENERAL INFORMATION:
; APPLICANT: Rosen et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: PZ031P1

; CURRENT APPLICATION NUMBER: US/09/489,847
; CURRENT FILING DATE: 2000-01-24
; EARLIER APPLICATION NUMBER: PCT/US99/17130
; EARLIER FILING DATE: 1999-07-29
; EARLIER APPLICATION NUMBER: 60/094,657
; EARLIER FILING DATE: 1998-07-30
; EARLIER APPLICATION NUMBER: 60/095,486
; EARLIER FILING DATE: 1998-08-05
; EARLIER APPLICATION NUMBER: 60/096,319
; EARLIER FILING DATE: 1998-08-12
; EARLIER APPLICATION NUMBER: 60/095,454
; EARLIER FILING DATE: 1998-08-06
; EARLIER APPLICATION NUMBER: 60/095,455
; EARLIER FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 234
; LENGTH: 82
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (82)
; OTHER INFORMATION: Xaa equals stop translation
US-09-489-847-234

Query Match 21.5%; Score 240; DB 4; Length 82;
Best Local Similarity 100.0%; Pred. No. 9.3e-18;
Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATGRLLSGQPVCRCGGTQPCYKVIYFHDTSRLNFEEAKEACRR 44
Db 22 ATGRLLSGQPVCRCGGTQPCYKVIYFHDTSRLNFEEAKEACRR 65

RESULT 9
US-09-489-847-324
; Sequence 324, Application US/09489847
; Patent No. 6476195
; GENERAL INFORMATION:
; APPLICANT: Rosen et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: PZ031P1
; CURRENT APPLICATION NUMBER: US/09/489,847
; EARLIER FILING DATE: 2000-01-24
; EARLIER FILING DATE: 1999-07-29
; EARLIER APPLICATION NUMBER: 60/094,657
; EARLIER FILING DATE: 1998-07-30
; EARLIER APPLICATION NUMBER: 60/095,486
; EARLIER FILING DATE: 1998-08-05
; EARLIER APPLICATION NUMBER: 60/096,319
; EARLIER FILING DATE: 1998-08-12
; EARLIER APPLICATION NUMBER: 60/095,454
; EARLIER FILING DATE: 1998-08-06
; EARLIER APPLICATION NUMBER: 60/095,455
; EARLIER FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 324
; LENGTH: 115
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-489-847-324

Query Match 21.5%; Score 240; DB 4; Length 115;
Best Local Similarity 100.0%; Pred. No. 1.5e-17;
Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATGRLLSGQPVCRCGGTQPCYKVIYFHDTSRLNFEEAKEACRR 44
Db 56 ATGRLLSGQPVCRCGGTQPCYKVIYFHDTSRLNFEEAKEACRR 99

RESULT 10
US-09-976-594-168
; Sequence 168, Application US/09976594
; Patent No. 6673549
; GENERAL INFORMATION:
; APPLICANT: Furness, Michael
; APPLICANT: Buchbinder, Jenny
; TITLE OF INVENTION: GENES EXPRESSED IN C3A LIVER CELL CULTURES TREATED WITH STEROIDS
; FILE REFERENCE: PA-0041 US
; CURRENT APPLICATION NUMBER: US/09/976,594
; CURRENT FILING DATE: 2001-10-12
; PRIOR APPLICATION NUMBER: 60/240,409
; PRIOR FILING DATE: 2000-10-12
; NUMBER OF SEQ ID NOS: 1143
; SOFTWARE: PERL Program
; SEQ ID NO 168
; LENGTH: 1456
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6673549 1674368CD1
US-09-976-594-168

Query Match 16.3%; Score 182; DB 4; Length 1456;
Best Local Similarity 25.5%; Pred. No. 5.5e-10;
Matches 52; Conservative 37; Mismatches 61; Indels 54; Gaps 8;
QY 21 YKVIYFHDTSRLNFEEAKEACRRDGGQLVSIIESEDEQKLEKFIENLLPSDGDFFWIGLR 80
Db 807 YKDYQYFSEKEKETMDNARAFCKRNFGLVSIQSESEKFLWKYV-NRNDQAQYFIGLL 865
QY 81 RREEKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGS--EVCVVMYHQPSAPAGIGGPY 138
Db 866 ISLDKK-----FAWMDGSKVDYVSWATGEPNFANEDENCVTMY---SNSGF---- 908
QY 139 MFQWDDRCNMKNFNICKYSDEK---PAVPSREAEGBETELTTPVLPEETQE----- 187
Db 909 ---WNDINGCYPNAFICQRHNSINATTMP-----TMPSPVSGCKEGWNFYSN 954
QY 188 -----EDAKTKFKESREAL 202
Db 955 KCFKIFGFMEERKNWQEARAKI 978

RESULT 11
US-08-840-062-5
; Sequence 5, Application US/08840062
; Patent No. 6117977
; GENERAL INFORMATION:
; APPLICANT: LASKY, LAURENCE A.
; APPLICANT: WU, KAI
; TITLE OF INVENTION: TYPE C LECTINS
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genentech, Inc.
; STREET: 460 Point San Bruno Blvd
; CITY: South San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94080
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WinPatIn (Genentech)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/840,062
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Dreger, Ginger R.

REGISTRATION NUMBER: 33,055
REFERENCE/DOCKET NUMBER: P1019R1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/225-3216
TELEFAX: 415/952-9881
TELEX: 910/371-7168
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 1455 amino acids
TYPE: Amino Acid
TOPOLOGY: Linear
US-08-840-062-5

Query Match 16.0%; Score 178.5; DB 3; Length 1455;
Best Local Similarity 25.9%; Pred. No. 1.3e-09;
Matches 53; Conservative 33; Mismatches 66; Indels 53; Gaps 8;

QY 21 YKVIYFHTSRRLNFEAEACRRDGGQLVSIIESEDEQKLIKFIENLLPSDGFHWIGLR 80
Db 806 YKDYQYFYSKEKETMDNARRFCCKNFGDLATIKSESEKFLWKYI-NKNGGQSPYFIGML 864
QY 81 RREEKQSNSTACQDLIYAWTDGSIQFRNMYVDEPSCGS--EVCVMYHQPSAPAGIGGPY 138
Db 865 ISMDKK-----FIWMDGSKVDFVAWATGEPNFANDDENCVTMY-----TNSGF---- 907
QY 139 MFQWDDRCNMKNFICK---YSDEKPAVPSREAEGETELTTPVLPEETQE----- 187
Db 908 ---WNDINCGYPNNFICQRIHNSINATAMP-----TTPTPGCKBGWHLYKNK 953
QY 188 -----EDAKKTFKESREALNL 204
Db 954 CFKIFGFANEKKSQDARQACKGL 978

RESULT 12
US-08-840-062-4
Sequence 4, Application US/08840062
Patent No. 6117977
GENERAL INFORMATION:
APPLICANT: LASKY, LAURENCE A.
APPLICANT: WU, KAI
TITLE OF INVENTION: TYPE C LECTINS
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Winpatin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/840,062
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Dreger, Ginger R.
REGISTRATION NUMBER: 33,055
REFERENCE/DOCKET NUMBER: P1019R1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/225-3216
TELEFAX: 415/952-9881
TELEX: 910/371-7168
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 1479 amino acids
TYPE: Amino Acid
TOPOLOGY: Linear
US-08-840-062-4

Query Match 15.8%; Score 176.5; DB 3; Length 1479;
Best Local Similarity 30.4%; Pred. No. 2.1e-09;
Matches 51; Conservative 25; Mismatches 57; Indels 35; Gaps 7;

QY 7 SGQPVCRGTQPCYKVIYFHTSRRLNFEAEACRRDGGQLVSIIESEDEQKLIKFIENLL 66
Db 385 SWQPF-----QGHCYRL-----QAEKRSWQESKKACLRGGDLVSIHSMAELEFITKLIK 434
QY 67 NLLPSDGFHWIGLRRLRREEKQSNSTACQDLIYAWTDGSIQFRNMYVDEPS---CGSEVCVV 123
Db 435 QEVE---ELWIGL-----NDLKLQMNFEWSDSLVSFTHWHPFEPNFRDLSLEDCVT 483
QY 124 MYHQPSAPAGIGGPYMFQWDDRCNMKNFICKYSDEKPAVPSREAE 171
Db 484 IW---GPEG-----RWNDSPCNQSLPSICKKAGQLSQGAAEEDHG 520

RESULT 13
US-08-340-428B-49
Sequence 49, Application US/08340428B
Patent No. 5648465
GENERAL INFORMATION:
APPLICANT: MARGOLIS, Richard U.
APPLICANT: RAUCH, Uwe
APPLICANT: MARGOLIS, Renee K.
TITLE OF INVENTION: CLONING, EXPRESSION AND USES FOR A
TITLE OF INVENTION: NEUROCAN AS A CHONDROITIN SULFATE PROTEOGLYCAN
NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
ADDRESSEE: Browdy and Neimark
STREET: 419 Seventh Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/340,428B
FILING DATE: 14 No. 5648465ember 1994
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/922,911
FILING DATE: 03 August 1992
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Browdy, Roger L.
REGISTRATION NUMBER: 25,618
REFERENCE/DOCKET NUMBER: Margolis=1A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
INFORMATION FOR SEQ ID NO: 49:
SEQUENCE CHARACTERISTICS:
LENGTH: 1257 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-340-428B-49

Query Match 15.6%; Score 174; DB 1; Length 1257;
Best Local Similarity 30.8%; Pred. No. 3.1e-09;
Matches 44; Conservative 18; Mismatches 49; Indels 32; Gaps 6;

QY 17 QRPCYKVIYFHTSRRLNFEAEACRRDGGQLVSIIESEDEQKLIKFIENLLPSDGFHW 76
Db 1037 QGHCYR--YF---AHRRAWEDAERCRRRAGHLTSVHSPPEHKFINSF-----GHENSW 1085

Db 746 IGL-----NDRTIEGLWSDGVPLLYENWNPQPDSDSYFLSGENCVVVMVHDDQ--- 794

QY 133 GIGGPFYMFQWDDRCNMKNFICKYS-----DEKPAVPSREAEG 171

Db 795 -----QWSDVPCNYHLSTCKMGLVSCGPPPELPLAEVFG 829

RESULT 17

US-09-602-877A-99

Sequence 99, Application US/09602877A

Patent No. 6432707

GENERAL INFORMATION:

APPLICANT: Reed, Steven G.

APPLICANT: Xu, Jiangchun

APPLICANT: Dillon, Davin C.

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY

TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER

FILE REFERENCE: 210121.446CS

CURRENT APPLICATION NUMBER: US/09/602,877A

CURRENT FILING DATE: 2000-06-22

NUMBER OF SEQ ID NOS: 107

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 99

LENGTH: 197

TYPE: PRT

ORGANISM: Homo sapien

US-09-602-877A-99

Query Match 13.5%; Score 151; DB 4; Length 197;

Best Local Similarity 25.0%; Pred. No. 6.4e-08;

Matches 38; Conservative 26; Mismatches 64; Indels 24; Gaps 4;

QY 9 QPVCRGGTQ--RPGYKVIYFHDTSRRLNFEEAEACRRDGGQLVSIESTEQLIEKFIE 66

Db 65 QTVCLRGTKVHKCYLA-----SEGLKHFHEANEDCISKGGILVIPRNSDEINALQDYGK 119

QY 67 NLLPSDGDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWTVDPSGCGSEVCVVMYH 126

Db 120 RSLPGVNDFWLGI-----NDMVTEGKFVDVNGIAISFLNWDRAQPNCGKRENCVLFS 171

QY 127 QPSAPAGIGGPFYMFQWDDRCNMKNFICKYS 158

Db 172 QSA-----QGWSDAEACRSKRYICEFT 194

RESULT 18

US-09-866-028-50

Sequence 50, Application US/09866028

Patent No. 6642360

GENERAL INFORMATION:

APPLICANT: Baker, Kevin

APPLICANT: Botstein, David

APPLICANT: Eaton, Dan

APPLICANT: Ferrara, Napoleone

APPLICANT: Filvaroff, Ellen

APPLICANT: Gerritsen, Mary

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul

APPLICANT: Grimaldi, Christopher

APPLICANT: Gurney, Austin

APPLICANT: Hillan, Kenneth

APPLICANT: Kljavin, Ivar

APPLICANT: Napier, Mary

APPLICANT: Roy, Margaret

APPLICANT: Tumas, Daniel

APPLICANT: Wood, William

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

TITLE OF INVENTION: ACIDS ENCODING THE SAME

FILE REFERENCE: P2548P1C1

CURRENT APPLICATION NUMBER: US/09/866,028

CURRENT FILING DATE: 2001-05-25

Prior application data removed - consult PALM or file wrapper

NUMBER OF SEQ ID NOS: 120

SEQ ID NO 50

LENGTH: 455

TYPE: PRT

ORGANISM: Homo Sapien

US-09-866-028-50

Query Match 13.4%; Score 149.5; DB 4; Length 455;

Best Local Similarity 25.6%; Pred. No. 2.9e-07;

Matches 45; Conservative 25; Mismatches 61; Indels 45; Gaps 8;

QY 14 GGTQRPCKYVIY--FHDTSRRLN-----FEEAEACRRDGGQLVSIESTEQLIEKFIE 59

Db 287 GGAQ--CATKVHFPFHTCDLRIDGDCFMVSEADTYRARMKQCKGVLQAIKSKVQD 344

QY 60 LIEKFIENLLP-----SDGD-----FWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWTVD 110

Db 345 ILAPYLGRLETTNEVTDSDPFTNRNFWIGLTYKTAK-----DSFRWATGEHQAFSTFA 396

QY 111 VDEPSCGSEVCVVMYHQPSAPAGIG-----GPYMFQWDDRCNMKNFICKYSDE 160

Db 397 FGQPDNHGLVWL-----SAAMGFGNCVELQASAAFNWDDQCKTRNRYICQFAQE 446

RESULT 19

US-07-641-971B-1

Sequence 1, Application US/07641971B

Patent No. 5236706

GENERAL INFORMATION:

APPLICANT: Debre, Patrice

APPLICANT: Mossalayi, Mohammed D

TITLE OF INVENTION: A PHARMACEUTICAL PREPARATION FOR THE

TITLE OF INVENTION: MATURATION OF PROTHYMOCYTES

NUMBER OF SEQUENCES: 6

CORRESPONDENCE ADDRESS:

ADDRESSEE: Irving M. Fishman, CIBA-GEIGY Corporation

STREET: 556 Morris Avenue

CITY: Summit

STATE: New Jersey

COUNTRY: USA

ZIP: 07901

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/07/641,971B

FILING DATE: 19910116

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: GB 90016254

FILING DATE: 24-JAN-1990

ATTORNEY/AGENT INFORMATION:

NAME: Fishman, Irving M

REGISTRATION NUMBER: 30258

REFERENCE/DOCKET NUMBER: 4-17921/+/DEB

TELECOMMUNICATION INFORMATION:

TELEPHONE: 908-277-4832

TELEFAX: 908-277-4306

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 174 amino acids

TYPE: AMINO ACID

TOPOLOGY: linear

MOLECULE TYPE: peptide

HYPOTHETICAL: NO

ANTI-SENSE: NO

FRAGMENT TYPE: N-terminal

ORIGINAL SOURCE:

CELL TYPE: Human B. Cells

CELL LINE: CHO cells transformed with pCAL8-BF-ND

US-07-641-971B-1

QY	17	QRPCYKVIYFHDTSRRLLNFEEAKEARRDGGQLVSI	SEDEQKLI	EKFPIENLL	PSDGD	FW 76
			:		:	
		:::	:		:	
Db	24	QRKCY---YFGKGTQ--WVHARYACDDMEGQLVSI	HSPEEQD	FLTKH---	ASHTGSW 73	
			:		:	
QY	77	IGLRRREKQSNSTACQDLYAWTDCSISQFRNWY	DEPSCGS--EVCVVMY	HQPSAPAGI 134		
			:		:	
Db	74	IGLRNLDLKGE-----FIWVDSHV	DISNWAPGEPT	SRSQGEDCVNM-----RGS 118		
QY	135	GGPYMFOWNDDRCNMK--NNFICKYSDEKPAV---	PSREAGE-----ELETTPV 180			
			:		:	
Db	119	G-----RWNDAFCDRKLGAWVC-----	DLATCTPPASEGSAESMG	PDSPDPDGRLLPTPS 169		
QY	181	LP 182				
Db	170	AP 171				

```

RESULT 21
US-08-365-103B-10
; Sequence 10, Application US/08365103B
; Patent No. 5766943
; GENERAL INFORMATION:
; APPLICANT: Lynch, Richard G
; APPLICANT: Nunez, Raphael D.
; APPLICANT: Yodoi, Jungi
; TITLE OF INVENTION: DNA Sequences for Soluble Froms of CD23
; TITLE OF INVENTION: and Methods of Use for Same
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Zarley, McKee, Thomte, Voorhees & Sease
; STREET: 801 Grand Ave. Suite 3200
; CITY: Des Moines
; STATE: Iowa
; COUNTRY: United States
; ZIP: 50309
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/365,103B
; FILING DATE: 28-DEC-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Nebel, Heidi S.
; REGISTRATION NUMBER: 37,719
; REFERENCE/DOCKET NUMBER: Uirf N5-24
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (515) 288-3667
; TELEFAX: (515) 288-1338
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 320 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-365-103B-10

```

Query March	13.4%;	Score 149;	DB 1;	Length 320;
Best Local Similarity	30.2%;	Pred. No. 2e-07;		
Matches	55;	Conservative 20;	Mismatches 57;	Indels 50; Gaps 11;
QY	17	QRPCYKVIYFHDTSRLNFEEAKEACRRDGGQLVSI ESEDEQKLI EKFIENLLPSDGD	FW	76
Db	170	QRKCY---YFGKGTQK--WVHARYACDDMEGQLVSIHSP EEQDFLTKH	----	ASHTGSW 219
QY	77	IGLRRREEKQSNSTACQDLYAWTDGSGISQFRNWXVDEPSCGS--EVCVVVYHQPSAPAGI	134	
Db	220	IGLRNLDLKG E-----FIWVDGSHVDYSNWAPGEPTSR SQGEDCVNM-----RGS	264	
QY	135	GGPYMFQWNDDRCNMK--NNFICKYSDEKPAV---PSREAEGE-----ETELTPV	180	

Query Match	13.4%	Score 149;	DB 1;	Length 174;
Best Local Similarity	30.2%	Pred. No. 8.7e-08;		
Matches 55; Conservative	20;	Mismatches 57;	Indels 50;	Gaps 11;

Db 220 IGLRNLDKGE-----FIWVGSHVDYSNWAFGEPTSRSGQDCVMM-----RGS 264

Qy 135 GGPYMFQWDDRCNMK-NNFICKYSDEKPAV----PSRAEGE-----ETELTPV 180

Db 265 G-----RWDAFCDRKLGAWVC-----DRLATCTPPASEGSAESMGPDSPDPDGRPLTPS 315

Qy 181 LP 182

Db 316 AP 317

RESULT 22

US-08-365-103B-8

; Sequence 8, Application US/08365103B

; Patent No. 5766943

; GENERAL INFORMATION:

; APPLICANT: Lynch, Richard G.

; APPLICANT: Nunez, Raphael D.

; APPLICANT: Yodol, Jungi

; TITLE OF INVENTION: DNA Sequences for Soluble Proms of CD23

; TITLE OF INVENTION: and Methods of Use for Same

; NUMBER OF SEQUENCES: 14

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Zarley, McKee, Thomte, Voorhees & Sease

; STREET: 801 Grand Ave. Suite 3200

; CITY: Des Moines

; STATE: Iowa

; COUNTRY: United States

; ZIP: 50309

; COMPUTER READABLE FORM:

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/365,103B

; FILING DATE: 28-DEC-1994

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: Nebel, Heidi S.

; REGISTRATION NUMBER: 37,719

; REFERENCE/DOCKET NUMBER: Uirf N5-24

; TELEPHONE: (515) 288-3667

; TELEFAX: (515) 288-1338

; INFORMATION FOR SEQ ID NO: 8:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 321 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

; US-08-365-103B-8

Query Match 13.4%; Score 149; DB 1; Length 321;

Best Local Similarity 30.2%; Pred. No. 2e-07;

Matches 55; Conservative 20; Mismatches 57; Indels 50; Gaps 11;

Qy 17 QRPCYKVIYFHDTSRRLNFEBAKEACRRDGGQLVSISEDEQKLEKFIENLLPDSGDFW 76

Db 171 QKCY---YFGKGTQK--WVHARYACDDMEGQLVSIHSPEEQDFTLTKH-----ASHTGSW 220

Qy 77 IGLRRREEKQSNSTACQDLYAWTDGSIQFRNRYVYDEPSCGS--EVCVVMYHQPAPAGI 134

Db 221 IGLRNLDLKGE-----FIWVDGSHVDYSNWAPEPTSRSQGEDCVMM-----RGS 265

Qy 135 GGPYMFQWNDRCNMK--NNFICKYSDEKPAV---PSREAAGE-----ETELTTPV 180

Db 266 G-----RWDAFCDRKLGAWVC-----DRLATCTPPASEGSAESMGPDSPDPDGRPLTPS 316

Qy 181 LP 182

Db 317 AP 318

RESULT 23

US-08-751-305-2

; Sequence 2, Application US/08751305

; Patent No. 5965439

; GENERAL INFORMATION:

; APPLICANT: Tenner et al., Andrea J.

; TITLE OF INVENTION: HOST DEFENSE ENHANCEMENT

; NUMBER OF SEQUENCES: 33

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Fish & Richardson P.C.

; STREET: 4225 Executive Square, Suite 1400

; CITY: La Jolla

; STATE: CA

; COUNTRY: USA

; ZIP: 92037

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/751,305

; FILING DATE: 18-NOV-1996

; CLASSIFICATION: 514

; ATTORNEY/AGENT INFORMATION:

; NAME: Wetherell, Jr., John R.

; REGISTRATION NUMBER: 31,678

; REFERENCE/DOCKET NUMBER: 07306/012001

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 619/678-5070

; TELEFAX: 619/678-5099

; INFORMATION FOR SEQ ID NO: 2:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 652 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

; US-08-751-305-2

Query Match 13.3%; Score 148.5; DB 2; Length 652;

Best Local Similarity 24.4%; Pred. No. 5.9e-07;

Matches 50; Conservative 37; Mismatches 75; Indels 43; Gaps 9;

Qy 5 LLGQP-----VCRGGTQRPCYKVIYFHDTSRRLNFEBAKEACRRDGGQLVSI 53

Db 13 LLTQPGAGTGADTEAVVCVG---TACYTA-----HSGKLSAAEAQNCHNCGNLATVK 64

Qy 54 SEDEQKLEKFIENLLPSD-----GDFWIGLRRREEKQSNSTACQDLYAWT-DGSISQ 105

Db 65 SKEBAQHVRVLAQLLRRAALTAARMKFWIGLQREKGCCLDPSLPLKGFWSVGGGDTTP 124

Qy 106 FRNRYVD-EPSCGSEVCVVM---YHQPAPAGIGGYPYMFQWNDRCNMKN-----FI 154

Db 125 YSNWHKELRNSCISKRCVSLLDLSQPLLPNRLP-----KWSEGPCGSPGSPGSGNIEGFV 179

Qy 155 CKYDEKPAVPSREAEGETELTTP 179

Db 180 CKFSFGKMCRLALGGPGQVYTTTP 204

RESULT 24

US-09-517-605-2

; Sequence 2, Application US/09517605

; Patent No. 6391567

; GENERAL INFORMATION:

; APPLICANT: Littman, Dan R.

; APPLICANT: Kwon, Douglas S.

; APPLICANT: van Kooyk, Yvette

; APPLICANT: Geijtenbeck, Theo

; TITLE OF INVENTION: METHODS OF USING A FACILITATOR OF RETROVIRAL ENTRY INTO

; TITLE OF INVENTION: CELLS

; FILE REFERENCE: 1049-1-017

; CURRENT APPLICATION NUMBER: US/09/517,605

; CURRENT FILING DATE: 2000-03-02

; NUMBER OF SEQ ID NOS: 17


```

US-08-513-278-4
Query Match 12.9%; Score 143.5; DB 2; Length 372;
Best Local Similarity 26.5%; Pred. No. 9.2e-07;
Matches 41; Conservative 37; Mismatches 50; Indels 27; Gaps 8;

QY 26 FHDTSRRLNFEAEKACRRDGGQLVSI ESEDEQKLIKFIENLLP-SDGDFWIGLRRREE 84
Db 41 YHYSEKPMNWNENARKFKQNYTDLVAIQNKRE---IE-YLENTLPKSPYYWIGIRK--- 93

QY 85 KQSNSTACQDLYAW--TDGSIS-QFRNWWYVDEPS--CGSEVCVVMYHQPSAPAGIGGPYM 139
Db 94 -----IGKMTWTVGTNKTTLTKEAENWGAGEPNKKSKEDCVEIYIKRERDSG----- 140

QY 140 FQWDDRCNMKNFNICKYSDEKPAVPSREAEGEET 174
Db 141 -KWDDACHKRKAALCYTASCQPGSCNGRGECVET 174

RESULT 26
5514582-4
; Patent No. 5514582
; APPLICANT: CAPON, DANIEL J.; LASKY, LAURENCE A.
; TITLE OF INVENTION: RECOMBINANT DNA ENCODING HYBRID
; IMMUNOGLOBULINS
; NUMBER OF SEQUENCES: 43
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/185,670
; FILING DATE: 21-JAN-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 986,931
; FILING DATE: 08-DEC-1992
; APPLICATION NUMBER: 808,122
; FILING DATE: 16-DEC-1991
; APPLICATION NUMBER: 440,625
; FILING DATE: 22-NOV-1989
; APPLICATION NUMBER: 315,015
; FILING DATE: 23-FEB-1989
; SEQ ID NO:4
; LENGTH: 372
5514582-4

Query Match 12.9%; Score 143.5; DB 6; Length 372;
Best Local Similarity 26.5%; Pred. No. 9.2e-07;
Matches 41; Conservative 37; Mismatches 50; Indels 27; Gaps 8

QY 26 FHDTSRRLNFEAEKACRRDGGQLVSI ESEDEQKLIKFIENLLP-SDGDFWIGLRRREE 84
Db 41 YHYSEKPMNWNENARKFKQNYTDLVAIQNKRE---IE-YLENTLPKSPYYWIGIRK--- 93

QY 85 KQSNSTACQDLYAW--TDGSIS-QFRNWWYVDEPS--CGSEVCVVMYHQPSAPAGIGGPYM 139
Db 94 -----IGKMTWTVGTNKTTLTKEAENWGAGEPNKKSKEDCVEIYIKRERDSG----- 140

QY 140 FQWDDRCNMKNFNICKYSDEKPAVPSREAEGEET 174
Db 141 -KWDDACHKRKAALCYTASCQPGSCNGRGECVET 174

RESULT 27
US-08-840-062-7
; Sequence 7, Application US/08840062
; Patent No. 6117977
; GENERAL INFORMATION:
; APPLICANT: LASKY, LAURENCE A.
; APPLICANT: WU, KAI
; TITLE OF INVENTION: TYPE C LECTINS
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genentech, Inc.
; STREET: 460 Point San Bruno Blvd
; CITY: South San Francisco
; STATE: California

```


TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US95-04258-7

Query Match 12.7%; Score 141.5; DB 5; Length 125;
Best Local Similarity 31.8%; Pred. No. 3.4e-07;
Matches 47; Conservative 21; Mismatches 37; Indels 43; Gaps 9;

Qy 17 QRPCYKVIYFHDTSRRLNFEAEKACRRDGGQLVSISEDEQKLIKFIENLLPSDGF 76
Db 9 QQKCY---YFGKGSQ--WQARFACSDLGRLVSIHSQKEQDFLMQHI-----NKKDSW 58

Qy 77 IGLRRREKQSNSTACQDL-----YAWTDGSIQFRNWWYVDEPSCG--SEVCVVMYHQPS 129
Db 59 IGL-----QDLNMEGEFVWSDGSPVGYSNWNPGEPPNNGGQGEDCVMM-----100

Qy 130 APAGIGGPFQWDDRC-NMKNNFICK 156
Db 101 --RSG-----QWDAFCRSYLDWVCE 121

RESULT 30
US-08-365-103B-4
; Sequence 4, Application US/08365103B
; Patent No. 5766943
; GENERAL INFORMATION:
; APPLICANT: Lynch, Richard G
; APPLICANT: Nunez, Raphael D.
; APPLICANT: Yodoi, Jungi
; TITLE OF INVENTION: DNA Sequences for Soluble Proms of CD23
; TITLE OF INVENTION: and Methods of Use for Same
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Zarley, McKee, Thomte, Voorhees & Sease
; STREET: 801 Grand Ave. Suite 3200
; CITY: Des Moines
; STATE: Iowa
; COUNTRY: United States
; ZIP: 50309
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/365,103B
; FILING DATE: 28-DEC-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Nebel, Heidi S.
; REGISTRATION NUMBER: 37,719
; REFERENCE/DOCKET NUMBER: Uirf N5-24
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (515) 288-3667
; TELEFAX: (515) 288-1338
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 287 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-365-103B-4

Query Match 12.7%; Score 141.5; DB 1; Length 287;
Best Local Similarity 31.8%; Pred. No. 1e-06;
Matches 47; Conservative 21; Mismatches 37; Indels 43; Gaps 9;

Qy 17 QRPCYKVIYFHDTSRRLNFEAEKACRRDGGQLVSISEDEQKLIKFIENLLPSDGF 76
Db 154 QQKCY---YFGKGSQ--WQARFACSDLGRLVSIHSQKEQDFLMQHI-----NKKDSW 203

Qy 77 IGLRRREKQSNSTACQDL-----YAWTDGSIQFRNWWYVDEPSCG--SEVCVVMYHQPS 129
Db 204 IGL-----QDLNMEGEFVWSDGSPVGYSNWNPGEPPNNGGQGEDCVMM-----245

Qy 130 APAGIGGPFQWDDRC-NMKNNFICK 156
Db 246 --RSG-----QWDAFCRSYLDWVCE 266

RESULT 31
US-08-365-103B-6
; Sequence 6, Application US/08365103B
; Patent No. 5766943
; GENERAL INFORMATION:
; APPLICANT: Lynch, Richard G
; APPLICANT: Nunez, Raphael D.
; APPLICANT: Yodoi, Jungi
; TITLE OF INVENTION: DNA Sequences for Soluble Proms of CD23
; TITLE OF INVENTION: and Methods of Use for Same
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Zarley, McKee, Thomte, Voorhees & Sease
; STREET: 801 Grand Ave. Suite 3200
; CITY: Des Moines
; STATE: Iowa
; COUNTRY: United States
; ZIP: 50309
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/365,103B
; FILING DATE: 28-DEC-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Nebel, Heidi S.
; REGISTRATION NUMBER: 37,719
; REFERENCE/DOCKET NUMBER: Uirf N5-24
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (515) 288-3667
; TELEFAX: (515) 288-1338
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 300 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-365-103B-6

Query Match 12.7%; Score 141.5; DB 1; Length 300;
Best Local Similarity 31.8%; Pred. No. 1.1e-06;
Matches 47; Conservative 21; Mismatches 37; Indels 43; Gaps 9;

Qy 17 QRPCYKVIYFHDTSRRLNFEAEKACRRDGGQLVSISEDEQKLIKFIENLLPSDGF 76
Db 167 QQKCY---YFGKGSQ--WQARFACSDLGRLVSIHSQKEQDFLMQHI-----NKKDSW 216

Qy 77 IGLRRREKQSNSTACQDL-----YAWTDGSIQFRNWWYVDEPSCG--SEVCVVMYHQPS 129
Db 217 IGL-----QDLNMEGEFVWSDGSPVGYSNWNPGEPPNNGGQGEDCVMM-----258

Qy 130 APAGIGGPFQWDDRC-NMKNNFICK 156
Db 259 --RSG-----QWDAFCRSYLDWVCE 279

RESULT 32
US-08-365-103B-2
; Sequence 2, Application US/08365103B
; Patent No. 5766943
; GENERAL INFORMATION:

QY 85 KQSNSTACQDLYAW--TDGSIS-QFRNWWYVDEPS--CGSEVCVVMYHQPSAPAGIGGPYM 139
Db 56 -----IGKWTWVGTKTLTKEAENWGAGEPNKKSKEDCVEIYIKRERDSG----- 102
QY 140 FQWDDRCNMKNFIC 155
Db 103 -KWDDACHKRKAALC 117

RESULT 35
5514582-12
;Patent No. 5514582
; APPLICANT: CAPON, DANIEL J.; LASKY, LAURENCE A.
; TITLE OF INVENTION: RECOMBINANT DNA ENCODING HYBRID
; IMMUNOGLOBULINS
; NUMBER OF SEQUENCES: 43
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/185,670
; FILING DATE: 21-JAN-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 986,931
; FILING DATE: 08-DEC-1992
; APPLICATION NUMBER: 808,122
; FILING DATE: 16-DEC-1991
; APPLICATION NUMBER: 440,625
; FILING DATE: 22-NOV-1989
; APPLICATION NUMBER: 315,015
; FILING DATE: 23-FEB-1989
; SEQ ID NO:12:
; LENGTH: 110
5514582-12

Query Match 12.3%; Score 137.5; DB 6; Length 110;
Best Local Similarity 32.4%; Pred. No. 7.5e-07;
Matches 45; Conservative 16; Mismatches 45; Indels 33; Gaps 8;
QY 20 CYKVIYFHTSRLNFEFEAKEACRRDGGQLVSI ESEDEQKLIKFIENLLPSDGD FWIGL 79
Db 2 CY--YFGKGTKQ--WVHARYACDDMEGQLVSIHSPEEQDILTKH-----ASHTG SWIGL 51
QY 80 RRREEKQSNSTACQDLYAWTDGSI SQRNWWYVDEPSCGS--EVCVVMYHQPSAPAGIGGP 137
Db 52 RNLDLKG E-----FIWVDGSHVDYSNWPAGEPTSR SQGEDCVMM-----RSGS-- 94
QY 138 YMFQWDDRCNMK--NNFIC 155
Db 95 ---RWNDAPCDRKLGAWVC 110

RESULT 36
5514582-19
;Patent No. 5514582
; APPLICANT: CAPON, DANIEL J.; LASKY, LAURENCE A.
; TITLE OF INVENTION: RECOMBINANT DNA ENCODING HYBRID
; IMMUNOGLOBULINS
; NUMBER OF SEQUENCES: 43
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/185,670
; FILING DATE: 21-JAN-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 986,931
; FILING DATE: 08-DEC-1992
; APPLICATION NUMBER: 808,122
; FILING DATE: 16-DEC-1991
; APPLICATION NUMBER: 440,625
; FILING DATE: 22-NOV-1989
; APPLICATION NUMBER: 315,015
; FILING DATE: 23-FEB-1989
; SEQ ID NO:19:
; LENGTH: 123
5514582-19

Query Match 12.3%; Score 137.5; DB 6; Length 123;
Best Local Similarity 26.9%; Pred. No. 8.7e-07;
Matches 36; Conservative 26; Mismatches 57; Indels 15; Gaps 5;
QY 25 YFHDTSRLNFEFEAKEACRRDGGQLVSI ESEDEQKLIKFIENLLPSDGD FWIGLRRREE 84
Db 2 YLIETELKYNWHQAWHECARHDQQLVTIESADKNNAIIDLVKRVVGVKSHNLWL G---GND 58
QY 85 KQSNSTACQDLYAWT-DGSISQFRNWWYVDEPS--CGSEVCVVMYHQPSAPAGIGGPYMFQ 141
Db 59 EYSSSRDYGRPPFFWSPTGQAFSFAYWSENNPDNPKYHQEHCVHIW--DTKP-----LYQ 109
QY 142 WNDRCNMKNFIC 155
Db 110 WNDNDCNVKMGYIC 123

RESULT 37
US-09-724-864-39
; Sequence 39, Application US/09724864
; Patent No. 6380362
; GENERAL INFORMATION:
; APPLICANT: Watson, James D
; APPLICANT: Murison, James G.
; TITLE OF INVENTION: Polynucleotides, polypeptides expressed
; TITLE OF INVENTION: by the polynucleotides and methods for their use.
; FILE REFERENCE: 11000.1050U1
; CURRENT APPLICATION NUMBER: US/09/724,864
; CURRENT FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: U.S. No. 6380362 60/171,678
; PRIOR FILING DATE: 1999-12-23
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 39
; LENGTH: 492
; TYPE: PRT
; ORGANISM: Mouse
US-09-724-864-39

Query Match 12.3%; Score 137.5; DB 4; Length 492;
Best Local Similarity 25.1%; Pred. No. 5.7e-06;
Matches 43; Conservative 29; Mismatches 66; Indels 33; Gaps 9;
QY 20 CYKVIYFHTSRLNFEFEAKEACRRDGGQLVSI ESEDEQKLIKFIENLLPSDGD FWIGL 79
Db 32 CYALF-----PRRTFLEAWRACRELGNLATPRTPEEAQRVDSL V-GVGPANGLLWIGL 85
QY 80 RRREEKQSNSTACQDL-----YAWTDG-SISQFRN WY--VDEPSCGSEVCVVMYHQPSAP 131
Db 86 QRQARQ-----CQQRPLRGFIWTTGDQDTAFTNWAQPA TEGPCPAQRC----- 129
QY 132 AGIGGPYMFQWDDRCNMK--NNFICKYSDEK--PAVPSREAEGETELTTP 179
Db 130 AALEASGEHRWLEGSCTLAVDGYLCQFGFEGACPALPLEVGQAGPAVY TTP 180

RESULT 38
US-09-111-470-8
; Sequence 8, Application US/09111470
; Patent No. 6277959
; GENERAL INFORMATION:
; APPLICANT: Valladeau, Jenny
; APPLICANT: Ravel, Odile
; APPLICANT: Bates, Elizabeth E.M.
; APPLICANT: Ford, John
; APPLICANT: Saeland, Sem
; APPLICANT: Lebecque, Serge J.E.
; TITLE OF INVENTION: Mammalian Membrane Protein Genes;
; TITLE OF INVENTION: Related Reagents
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: DNAX Research Institute
; STREET: 901 California Avenue

;
; CITY: Palo Alto
; STATE: California
; COUNTRY: USA
; ZIP: 94304-1104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/111,470
; FILING DATE: 08-JUL-1998
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/053,080
; FILING DATE: 09-JUL-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Ching, Edwin P.
; REGISTRATION NUMBER: 34,090
; REFERENCE/DOCKET NUMBER: SF0695
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650)852-9196
; TELEFAX: (650)496-1200
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 238 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-111-470-8

Query Match 12.1%; Score 135; DB 3; Length 238;
Best Local Similarity 26.6%; Pred. No. 3.9e-06;
Matches 37; Conservative 24; Mismatches 52; Indels 26; Gaps 5;

QY 20 CYKVIYFHDTSRRLNFEAEACRRDGGQLVSISEDEQKLEKFIENLLPSDGFWIGL 79
Db 118 CYLV---PTVSSASWKNSECSRMGALHVLVIQSQEEQ----DFITGILDTHAAYFIGL 170

QY 80 RREKQKSNSTACQDLVYAWTDGS--ISQFRNRYVDEPSCGSEVCVMYHQSAPAGIGGP 137
Db 171 WDTGHRQ-----WQVVDQTPYEESITFWHNGEPSSGNEKCATIIVRWKTGWG---- 217

QY 138 YMFQWNDRCNMKNPFICK 156
Db 218 ----WNDISCSLKQKSVQC 232

RESULT 39
US-09-535-521-8
; Sequence 8, Application US/09535521
; Patent No. 6410714
; GENERAL INFORMATION:
; APPLICANT: Weber, Eric R.
; APPLICANT: McCall, Catherine A.
; TITLE OF INVENTION: NOVEL CANINE LOW AFFINITY IGE RECEPTOR (CANINE CD23)
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES AND USES THEREOF
; FILE REFERENCE: AL-5
; CURRENT APPLICATION NUMBER: US/09/535,521
; CURRENT FILING DATE: 2000-03-24
; EARLIER APPLICATION NUMBER: 60/125,913
; EARLIER FILING DATE: 1999-03-24
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 128
; TYPE: PRT
; ORGANISM: Canis familiaris
; US-09-535-521-8

Query Match 12.1%; Score 134.5; DB 4; Length 128;
Best Local Similarity 28.2%; Pred. No. 1.9e-06;
Matches 40; Conservative 24; Mismatches 45; Indels 33; Gaps 8;

QY 17 QRPCYKVIYFHDTSRRLNFEAEACRRDGGQLVSISEDEQKLEKFIENLLPSDGFW 76
Db 11 QRKCY---YFGEPPK--WQARFACSKLQRLASIHSEEQDFLARY-----ANKKGTW 60

QY 77 IGLRRREKQKSNSTACQDLVYAWTDGSISQFRNRYVDEPSCG--SEVCVMYHQSAPAGI 134
Db 61 IGLRDLREGE-----FIWMDENPLNYSNWRPGEPPNNGGGQGEDCVM-----QGS 105

QY 135 GGPYMFQWNDRCNMK--NNFIC 155
Db 106 G-----QWDAFCGSSLDGWVC 122

RESULT 40
US-09-535-521-11
; Sequence 11, Application US/09535521
; Patent No. 6410714
; GENERAL INFORMATION:
; APPLICANT: Weber, Eric R.
; APPLICANT: McCall, Catherine A.
; TITLE OF INVENTION: NOVEL CANINE LOW AFFINITY IGE RECEPTOR (CANINE CD23)
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES AND USES THEREOF
; FILE REFERENCE: AL-5
; CURRENT APPLICATION NUMBER: US/09/535,521
; CURRENT FILING DATE: 2000-03-24
; EARLIER APPLICATION NUMBER: 60/125,913
; EARLIER FILING DATE: 1999-03-24
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 139
; TYPE: PRT
; ORGANISM: Canis familiaris
; US-09-535-521-11

Query Match 12.1%; Score 134.5; DB 4; Length 139;
Best Local Similarity 28.2%; Pred. No. 2.1e-06;
Matches 40; Conservative 24; Mismatches 45; Indels 33; Gaps 8;

QY 17 QRPCYKVIYFHDTSRRLNFEAEACRRDGGQLVSISEDEQKLEKFIENLLPSDGFW 76
Db 22 QRKCY---YFGEPPK--WQARFACSKLQRLASIHSEEQDFLARY-----ANKKGTW 71

QY 77 IGLRRREKQKSNSTACQDLVYAWTDGSISQFRNRYVDEPSCG--SEVCVMYHQSAPAGI 134
Db 72 IGLRDLREGE-----FIWMDENPLNYSNWRPGEPPNNGGGQGEDCVM-----QGS 116

QY 135 GGPYMFQWNDRCNMK--NNFIC 155
Db 117 G-----QWDAFCGSSLDGWVC 133

RESULT 41
US-09-535-521-14
; Sequence 14, Application US/09535521
; Patent No. 6410714
; GENERAL INFORMATION:
; APPLICANT: Weber, Eric R.
; APPLICANT: McCall, Catherine A.
; TITLE OF INVENTION: NOVEL CANINE LOW AFFINITY IGE RECEPTOR (CANINE CD23)
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES AND USES THEREOF
; FILE REFERENCE: AL-5
; CURRENT APPLICATION NUMBER: US/09/535,521
; CURRENT FILING DATE: 2000-03-24
; EARLIER APPLICATION NUMBER: 60/125,913
; EARLIER FILING DATE: 1999-03-24
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 141
; TYPE: PRT
; ORGANISM: Canis familiaris

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US-09-535-521-14
Query Match      12.1%; Score 134.5; DB 4; Length 141;
Best Local Similarity 28.2%; Pred. No. 2.2e-06;
Matches 40; Conservative 24; Mismatches 45; Indels 33; Gaps 8;

QY 17 QRPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSISEDEQKLIKFIENLLPSDGDWF 76
   ||| ||| : : : : : ||| : : : : : ||| : : : : : ||| : : : : :
Db 24 QKCY---YFGEPPK--WIQARFACSKLQGRLASIHSQEQDFLARY-----ANKKGTW 73
   ||| ||| : : : : : ||| : : : : : ||| : : : : : ||| : : : : :

QY 77 IGLRREEKQSNSTACQDLYAWTDGSIQFRNMYVDEPSCG--SEVCVMYHQPSAPAGI 134
   ||| ||| : : : : : ||| : : : : : ||| : : : : : ||| : : : : :
Db 74 IGLRDLREGE-----FIWMDENPLNYSNWRPGEPPNNGGQGEDCVM-----QGS 118
   ||| ||| : : : : : ||| : : : : : ||| : : : : : ||| : : : : :

QY 135 GGPYMFQWNDRCNMK--NNFIC 155
   ||| ||| : : : : : ||| : : : : : ||| : : : : : ||| : : : : :
Db 119 G-----QWDAFCGSSLDGWVC 135
   ||| ||| : : : : : ||| : : : : : ||| : : : : : ||| : : : : :

RESULT 42
US-09-535-521-17
; Sequence 17, Application US/09535521
; Patent No. 6410714
; GENERAL INFORMATION:
; APPLICANT: Weber, Eric R.
; APPLICANT: McCall, Catherine A.
; TITLE OF INVENTION: NOVEL CANINE LOW AFFINITY IGE RECEPTOR (CANINE CD23)
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES AND USES THEREOF
; FILE REFERENCE: AL-5
; CURRENT APPLICATION NUMBER: US/09/535,521
; CURRENT FILING DATE: 2000-03-24
; EARLIER APPLICATION NUMBER: 60/125,913
; EARLIER FILING DATE: 1999-03-24
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 17
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Canis familiaris
US-09-535-521-17

Query Match      12.1%; Score 134.5; DB 4; Length 187;
Best Local Similarity 28.2%; Pred. No. 3.2e-06;
Matches 40; Conservative 24; Mismatches 45; Indels 33; Gaps 8;

QY 17 QRPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSISEDEQKLIKFIENLLPSDGDWF 76
   ||| ||| : : : : : ||| : : : : : ||| : : : : : ||| : : : : :
Db 70 QKCY---YFGEPPK--WIQARFACSKLQGRLASIHSQEQDFLARY-----ANKKGTW 119
   ||| ||| : : : : : ||| : : : : : ||| : : : : : ||| : : : : :

QY 77 IGLRREEKQSNSTACQDLYAWTDGSIQFRNMYVDEPSCG--SEVCVMYHQPSAPAGI 134
   ||| ||| : : : : : ||| : : : : : ||| : : : : : ||| : : : : :
Db 120 IGLRDLREGE-----FIWMDENPLNYSNWRPGEPPNNGGQGEDCVM-----QGS 164
   ||| ||| : : : : : ||| : : : : : ||| : : : : : ||| : : : : :

QY 135 GGPYMFQWNDRCNMK--NNFIC 155
   ||| ||| : : : : : ||| : : : : : ||| : : : : : ||| : : : : :
Db 165 G-----QWDAFCGSSLDGWVC 181
   ||| ||| : : : : : ||| : : : : : ||| : : : : : ||| : : : : :

RESULT 43
US-09-535-521-20
; Sequence 20, Application US/09535521
; Patent No. 6410714
; GENERAL INFORMATION:
; APPLICANT: Weber, Eric R.
; APPLICANT: McCall, Catherine A.
; TITLE OF INVENTION: NOVEL CANINE LOW AFFINITY IGE RECEPTOR (CANINE CD23)
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES AND USES THEREOF
; FILE REFERENCE: AL-5
; CURRENT APPLICATION NUMBER: US/09/535,521
; CURRENT FILING DATE: 2000-03-24
; EARLIER APPLICATION NUMBER: 60/125,913
; EARLIER FILING DATE: 1999-03-24
; NUMBER OF SEQ ID NOS: 26

US-09-535-521-14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 208
; TYPE: PRT
; ORGANISM: Canis familiaris
US-09-535-521-20

Query Match      12.1%; Score 134.5; DB 4; Length 208;
Best Local Similarity 28.2%; Pred. No. 3.7e-06;
Matches 40; Conservative 24; Mismatches 45; Indels 33; Gaps 8;

QY 17 QRPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSISEDEQKLIKFIENLLPSDGDWF 76
   ||| ||| : : : : : ||| : : : : : ||| : : : : : ||| : : : : :
Db 91 QKCY---YFGEPPK--WIQARFACSKLQGRLASIHSQEQDFLARY-----ANKKGTW 140
   ||| ||| : : : : : ||| : : : : : ||| : : : : : ||| : : : : :

QY 77 IGLRREEKQSNSTACQDLYAWTDGSIQFRNMYVDEPSCG--SEVCVMYHQPSAPAGI 134
   ||| ||| : : : : : ||| : : : : : ||| : : : : : ||| : : : : :
Db 141 IGLRDLREGE-----FIWMDENPLNYSNWRPGEPPNNGGQGEDCVM-----QGS 185
   ||| ||| : : : : : ||| : : : : : ||| : : : : : ||| : : : : :

QY 135 GGPYMFQWNDRCNMK--NNFIC 155
   ||| ||| : : : : : ||| : : : : : ||| : : : : : ||| : : : : :
Db 186 G-----QWDAFCGSSLDGWVC 202
   ||| ||| : : : : : ||| : : : : : ||| : : : : : ||| : : : : :

RESULT 44
US-09-535-521-2
; Sequence 2, Application US/09535521
; Patent No. 6410714
; GENERAL INFORMATION:
; APPLICANT: Weber, Eric R.
; APPLICANT: McCall, Catherine A.
; TITLE OF INVENTION: NOVEL CANINE LOW AFFINITY IGE RECEPTOR (CANINE CD23)
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES AND USES THEREOF
; FILE REFERENCE: AL-5
; CURRENT APPLICATION NUMBER: US/09/535,521
; CURRENT FILING DATE: 2000-03-24
; EARLIER APPLICATION NUMBER: 60/125,913
; EARLIER FILING DATE: 1999-03-24
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Canis familiaris
US-09-535-521-2

Query Match      12.1%; Score 134.5; DB 4; Length 292;
Best Local Similarity 28.2%; Pred. No. 5.8e-06;
Matches 40; Conservative 24; Mismatches 45; Indels 33; Gaps 8;

QY 17 QRPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSISEDEQKLIKFIENLLPSDGDWF 76
   ||| ||| : : : : : ||| : : : : : ||| : : : : : ||| : : : : :
Db 175 QKCY---YFGEPPK--WIQARFACSKLQGRLASIHSQEQDFLARY-----ANKKGTW 224
   ||| ||| : : : : : ||| : : : : : ||| : : : : : ||| : : : : :

QY 77 IGLRREEKQSNSTACQDLYAWTDGSIQFRNMYVDEPSCG--SEVCVMYHQPSAPAGI 134
   ||| ||| : : : : : ||| : : : : : ||| : : : : : ||| : : : : :
Db 225 IGLRDLREGE-----FIWMDENPLNYSNWRPGEPPNNGGQGEDCVM-----QGS 269
   ||| ||| : : : : : ||| : : : : : ||| : : : : : ||| : : : : :

QY 135 GGPYMFQWNDRCNMK--NNFIC 155
   ||| ||| : : : : : ||| : : : : : ||| : : : : : ||| : : : : :
Db 270 G-----QWDAFCGSSLDGWVC 286
   ||| ||| : : : : : ||| : : : : : ||| : : : : : ||| : : : : :

RESULT 45
US-09-535-521-5
; Sequence 5, Application US/09535521
; Patent No. 6410714
; GENERAL INFORMATION:
; APPLICANT: Weber, Eric R.
; APPLICANT: McCall, Catherine A.
; TITLE OF INVENTION: NOVEL CANINE LOW AFFINITY IGE RECEPTOR (CANINE CD23)
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES AND USES THEREOF
; FILE REFERENCE: AL-5
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```

; CITY: Philadelphia
; STATE: Pennsylvania
; COUNTRY: U.S.A.
; ZIP: 19122
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 720 Kb
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/893,929A
; FILING DATE: 19920605
; CLASSIFICATION: 435
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/803,630
; FILING DATE: December 3, 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Monaco, Daniel A.
; REGISTRATION NUMBER: 30,480
; REFERENCE/DOCKET NUMBER: 6056-126 (CIP) 1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 568-8383
; TELEFAX: (215) 568-5549
; TELEX: NO. 5336667e
;
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 133 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
;
; US-07-893-929A-9
;
; Query Match 12.0%; Score 133.5; DB 1; Length 133;
; Best Local Similarity 29.1%; Pred. No. 2.5e-06;
; Matches 41; Conservative 21; Mismatches 48; Indels 31; Gaps 8;
;
QY 20 CYKVIYFHDTSRRLNFEAEKACRR-DGGQLVSISEDEQKLIETKFIENLLPS---DGDF 75
Db 15 CYQLF-----RLKTWDEAKYCNQWDGHLVSIENAKAEFVAQLISRKLPKSAIEDRV 68
QY 76 WIGLRRREKQSNSTACQDLYAWTDGSI SQFRNWYVDEPSCGSEVCVMYHQPSAPAGIG 135
Db 69 WIGLDRSKREQ---CGHL--WTDNSFVHYE--HVPPT----KCFVLERQTE----- 110
QY 136 GPYMFQWDDRCNMKNFICK 156
Db 111 ---FRKWIAVNCFKFPFVCK 128
;
; RESULT 49
; PCT-US92-10344-9
; Sequence 9, Application PC/TUS9210344
; GENERAL INFORMATION:
; APPLICANT: Kirby, Edward P.
; APPLICANT: Peng, Man-ling
; TITLE OF INVENTION: Alboaggregins: Platelet
; TITLE OF INVENTION: Agonists Which Bind To Platelet
; TITLE OF INVENTION: Membrane Glycoprotein Ib
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Temple University - Of The Common-
; ADDRESSEE: wealth System of Higher Education
; STREET: 406 University Services Building
; CITY: Philadelphia
; STATE: Pennsylvania
; COUNTRY: U.S.A.
; ZIP: 19122
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 720 Kb
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/10344

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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
OM protein - protein search, using sw model
Run on: September 9, 2004, 22:23:07 ; Search time 124 Seconds
(without alignments)
469.393 Million cell updates/sec

Title: US-09-887-855-2_COPY_22_227
Perfect score: 1115
Sequence: 1 ATGRLLSGQPVCRGGTQRPC.....EEDAKTKFKESREAAALNLAY 206
Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5
Searched: 1586107 seqs, 282547505 residues
Total number of hits satisfying chosen parameters: 1586107
Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 50 summaries

Database : A Geneseq_29Jan04:*
1: geneseqp1980s:*
2: geneseqp1990s:*
3: geneseqp2000s:*
4: geneseqp2001s:*
5: geneseqp2002s:*
6: geneseqp2003as:*
7: geneseqp2003bs:*
8: geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES						
Result No.	Score	Query Match	Length	DB ID	Description	
1	1115	100.0	374	3	AAY93948	Aay93948 Amino aci
2	1115	100.0	374	4	AAE03651	Aae03651 Human ext
3	1115	100.0	374	5	ABB90203	Abb90203 Human pol
4	1115	100.0	374	5	ABG66680	Abg66680 Human nov
5	1115	100.0	374	6	ADA54522	Ada54522 Human pro
6	1115	100.0	387	4	AAM25796	Aam25796 Human pro
7	1111	99.6	374	6	ADA54574	Ada54574 Human pro
8	1105	99.1	374	3	AAY91490	Aay91490 Human sec
9	1101	98.7	382	2	AAY13367	Aay13367 Amino aci
10	1101	98.7	382	3	ADC78457	Adc78457 Human PRO
11	1101	98.7	382	4	AAB80235	Aab80235 Human PRO
12	1101	98.7	382	4	AAU29033	Aau29033 Human PRO
13	1101	98.7	382	6	ABU58409	Abu58409 Human PRO
14	1101	98.7	382	6	ABU71613	Abu71613 Human PRO
15	1101	98.7	382	6	ABU87957	Abu87957 Novel hum
16	1101	98.7	382	6	ABU84272	Abu84272 Human sec
17	1101	98.7	382	6	ABR66146	Abr66146 Human sec
18	1101	98.7	382	6	ABR65536	Abr65536 Human sec
19	1101	98.7	382	6	ABU99476	Abu99476 Human sec
20	1101	98.7	382	6	ABU82715	Abu82715 Human PRO
21	1101	98.7	382	6	ABU89836	Abu89836 Novel hum
22	1101	98.7	382	6	ABU71468	Abu71468 Human PRO
23	1101	98.7	382	6	ABR68085	Abr68085 Human sec
24	1101	98.7	382	6	ABU96138	Abu96138 Novel hum
25	1101	98.7	382	6	ABU92569	Abu92569 Human sec

26	1101	98.7	382	6	ABO08646	Abo08646 Human sec
27	1101	98.7	382	6	ABO02698	Abo02698 Human sec
28	1101	98.7	382	6	ABR74852	Abr74852 Human sec
29	1101	98.7	382	6	ABR94614	Abr94614 Human sec
30	1101	98.7	382	6	ABU85587	Abu85587 Human PRO
31	1101	98.7	382	6	ABU98747	Abu98747 Novel hum
32	1101	98.7	382	6	ABU97962	Abu97962 Novel hum
33	1101	98.7	382	6	ABU91668	Abu91668 Novel hum
34	1101	98.7	382	6	ABU71914	Abu71914 Human sec
35	1101	98.7	382	6	ABU89361	Abu89361 Human PRO
36	1101	98.7	382	6	ABU86202	Abu86202 Human sec
37	1101	98.7	382	6	ABU67415	Abu67415 Human sec
38	1101	98.7	382	6	ABU80443	Abu80443 Human PRO
39	1101	98.7	382	6	ABO01797	Abo01797 Novel hum
40	1101	98.7	382	6	ABR99361	Abr99361 Human sec
41	1101	98.7	382	6	ABR98751	Abr98751 Human sec
42	1101	98.7	382	6	ABO16274	Abo16274 Human sec
43	1101	98.7	382	6	ABR92174	Abr92174 Human sec
44	1101	98.7	382	6	ABO18815	Abo18815 Human sec
45	1101	98.7	382	6	ABR78236	Abr78236 Human sec
46	1101	98.7	382	6	ABU84972	Abu84972 Novel hum
47	1101	98.7	382	6	ABO00111	Abo00111 Novel hum
48	1101	98.7	382	6	ABO11443	Abo11443 Human sec
49	1101	98.7	382	6	ABO02088	Abo02088 Human sec
50	1101	98.7	382	6	ABU54370	Abu54370 Human sec

ALIGNMENTS

RESULT 1
AAY93948
ID AAY93948 standard; protein; 374 AA.
XX
AC AAY93948;
XX
DT 03-OCT-2000 (first entry)
XX
DE Amino acid sequence of a lectin ss3939 polypeptide.
XX
KW Human; lectin ss3939; chromosome 11; gene therapy.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Peptide 1..21
FT Domain /note= "signal peptide"
FT Domain /note= "extracellular coding region"
FT Domain /note= "predicted transmembrane domain"
FT Domain /note= "predicted cytoplasmic or intracellular domain"
XX WO200039296-A1.
XX
XX
PD 06-JUL-2000.
XX
PF 22-DEC-1999; 99WO-US030523.
XX
PR 23-DEC-1998; 98US-0113820P.
XX
PA (IMMV) IMMUNEX CORP.
XX
PI Anderson DA;
XX
XX WPI; 2000-452394/39.
DR N-PSDB; AAA57382.
DR
XX
PT ss3939 nucleic acids, polypeptides and antibodies, useful for identifying human chromosome 11 and diseases associated with it.
XX
PS Claim 12; Page 8; 73pp; English.

XX The present sequence represents a human lectin ss3939 polypeptide. The
CC polynucleotide sequence is a source of probes, which may be used to
CC identify nucleic acids encoding ss3939 proteins, to identify human
CC chromosome number 11, to map genes on human chromosome 11, to
CC identify diseases associated with chromosome 11, as single-stranded sense
CC or antisense oligonucleotides to inhibit expression of polypeptides
CC encoded by the ss3939 gene, and for gene therapy. The ss3939 polypeptides
CC may be useful for developing treatments for diseases (none specified)
CC associated with defective or insufficient amounts of the polypeptides.
CC The antibodies may be useful for detecting the presence of ss3939
CC polypeptides
XX
SQ Sequence 374 AA;
Query Match 100.0%; Score 1115; DB 3; Length 374;
Best Local Similarity 100.0%; Pred. No. 1.9e-104;
Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATGRLSSGQPVCRGGTQPCYKVIYFHDTSRLNFEEAKEACRRDGGQLVSISEDEQKL 60
Db 22 ATGRLSSGQPVCRGGTQPCYKVIYFHDTSRLNFEEAKEACRRDGGQLVSISEDEQKL 81
QY 61 IEKFIENLLPSDGDGFWIGLRRREKQSNSTACQDLYAWTDGSGISQFRNWWYVDEPSCGSEV 120
Db 82 IEKFIENLLPSDGDGFWIGLRRREKQSNSTACQDLYAWTDGSGISQFRNWWYVDEPSCGSEV 141
QY 121 CVVMYHQPSAPAGIGGPFYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGETELTPV 180
Db 142 CVVMYHQPSAPAGIGGPFYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGETELTPV 201
QY 181 LPEETQEDAKKTFKESREAAALNAY 206
Db 202 LPEETQEDAKKTFKESREAAALNAY 227

RESULT 2
AAE03651
ID AAE03651 standard; protein; 374 AA.
XX
AC AAE03651;
XX
DT 06-AUG-2001 (first entry)
XX
DE Human extracellular matrix and cell adhesion molecule-15 (XMAD-15).
XX
KW Human; extracellular matrix and cell adhesion molecule; XMAD;
KW gene therapy; genetic disorder; adrenoleukodystrophy; leukaemia;
KW Down's syndrome; cystic fibrosis; Gaucher's disease; myotonic dystrophy;
KW sickle cell anaemia; thalassaemia; autoimmune disorder; adenocarcinoma;
KW inflammatory disorder; acquired immune deficiency syndrome; AIDS;
KW Addison's disease; allergy; anaemia; asthma; atherosclerosis; melanoma;
KW Crohn's disease; diabetes mellitus; atopic dermatitis; lymphoma; cancer;
KW glomerulonephritis; multiple sclerosis; Grave's disease; osteoarthritis;
KW osteoporosis; psoriasis; rheumatoid arthritis; ulcerative colitis;
KW infection; cell proliferative disorder; actinic keratosis; myeloma;
KW arteriosclerosis; neutropenic; anticonvulsant; antithyroid; nephrotropic;
KW neuroprotective; dermatological.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Peptide 1..24 /label= Signal_peptide
FT Protein 25..374 /note= "Mature human extracellular matrix and cell
FT adhesion molecule (XMAD)"
FT Domain 46..63 /note= "C-type lectin domain"
FT Domain 163..176 /note= "C-type lectin domain"
FT Domain 224..247 /note= "Transmembrane motif"

FT Domain 328..348 /note= "Transmembrane motif"
XX
PN WO200142285-A2.
XX 14-JUN-2001.
XX
PF 05-DEC-2000; 2000WO-US032990.
XX
PR 10-DEC-1999; 99US-0172852P.
PR 16-DEC-1999; 99US-0172354P.
XX
PA (INCY-) INCYTE GENOMICS INC.
XX
PI Yue H, Tang YT, Lal P, Burford N, Azimzai Y, Patterson C;
PI Baughn MR, Lu DAM, Shah P, Au-Young J;
XX
DR WPI; 2001-381632/40.
DR N-PSDB; AAD08059.
XX
XX New human extracellular matrix and cell adhesion molecules and
PT polynucleotide sequences encoding them, useful for diagnosis, prevention,
PT treatment of genetic, autoimmune and cell proliferative disorders.
XX
PS Claim 1; Page 108-109; 135pp; English.
XX
CC The present sequence is a human extracellular matrix and cell adhesion
CC molecule (XMAD). The XMAD is used for screening a compound for
CC effectiveness as an agonist or antagonist of XMAD. The identified agonist
CC or antagonist are used for treating a disease or condition associated
CC with decreased or increased expression of functional XMAD. The
CC polynucleotides encoding XMAD are useful in somatic or germline gene
CC therapy to correct a genetic deficiency, to express a conditionally
CC lethal gene product and to express a protein which affords protection
CC against intracellular parasites and also for diagnosis of disorders
CC associated with expression of XMAD. They are also used for generating
CC hybridisation probes useful in mapping the naturally occurring genomic
CC sequences and to create knock in humanised animals (pigs) or transgenic
CC animals (mice or rats) to model human diseases. Oligonucleotide or longer
CC fragments derived from the polynucleotide sequences may be used as
CC elements on a microarray. Antibodies which specifically bind XMAD may be
CC used for the diagnosis of disorders associated with the expression of
CC XMAD, or in assays to monitor patients being treated with XMAD. Diseases
CC diagnosed, prevented or treated include genetic disorders such as
CC adrenoleukodystrophy, Down's syndrome, cystic fibrosis, Gaucher's
CC disease, myotonic dystrophy, sickle cell anaemia, thalassaemia,
CC autoimmune/inflammatory disorders such as acquired immune deficiency
CC syndrome (AIDS), Addison's disease, allergies, anaemia, asthma,
CC atherosclerosis, Crohn's disease, diabetes mellitus, atopic dermatitis,
CC glomerulonephritis, multiple sclerosis, Grave's disease, osteoarthritis,
CC osteoporosis, psoriasis, rheumatoid arthritis, ulcerative colitis, and
CC bacterial, fungal, parasitic, protozoal and helminthic infections, and
CC cell proliferative disorders such as actinic keratosis, arteriosclerosis
CC and cancer including breast, bladder, bone marrow, brain and uterus
CC cancer, leukaemia, adenocarcinoma, lymphoma, melanoma and myeloma
XX
SQ Sequence 374 AA;

Query Match 100.0%; Score 1115; DB 4; Length 374;
Best Local Similarity 100.0%; Pred. No. 1.9e-104;
Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATGRLSSGQPVCRGGTQPCYKVIYFHDTSRLNFEEAKEACRRDGGQLVSISEDEQKL 60
Db 22 ATGRLSSGQPVCRGGTQPCYKVIYFHDTSRLNFEEAKEACRRDGGQLVSISEDEQKL 81
QY 61 IEKFIENLLPSDGDGFWIGLRRREKQSNSTACQDLYAWTDGSGISQFRNWWYVDEPSCGSEV 120
Db 82 IEKFIENLLPSDGDGFWIGLRRREKQSNSTACQDLYAWTDGSGISQFRNWWYVDEPSCGSEV 141
QY 121 CVVMYHQPSAPAGIGGPFYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGETELTPV 180
Db 142 CVVMYHQPSAPAGIGGPFYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGETELTPV 201

CC disease. The sequences of the invention are also useful for gut
CC protection or regeneration and treatment of lung or liver fibrosis,
CC reperfusion injury in various tissues, immune deficiencies and disorders
CC including severe combined immunodeficiency (SCID), bacterial or fungal
CC infections, autoimmune disorders e.g. multiple sclerosis and myasthenia
CC gravis, allergic conditions such as asthma, thrombolysis or thrombosis
CC and coagulation disorders. Sequences ABG66666-ABG66758 represent human
CC novel polypeptides of the invention
XX
SQ Sequence 374 AA;

Query Match 100.0%; Score 1115; DB 5; Length 374;
Best Local Similarity 100.0%; Pred. No. 1.9e-104;
Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATGRLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEAEACRRDGGQLVSESEDEQKL 60
Db 22 ATGRLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEAEACRRDGGQLVSESEDEQKL 81
QY 61 IEKFIENLLPSDGDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEV 120
Db 82 IEKFIENLLPSDGDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEV 141
QY 121 CVVMYHQPSAPAGIGGYPYFQWDDRCNMKNFNICKYSDEKPAVPSREAEGETELTPV 180
Db 142 CVVMYHQPSAPAGIGGYPYFQWDDRCNMKNFNICKYSDEKPAVPSREAEGETELTPV 201
QY 181 LPETQEEDAKKTFKESREAAALNLAY 206
Db 202 LPETQEEDAKKTFKESREAAALNLAY 227

RESULT 5
ADA54522
ID ADA54522 standard; protein; 374 AA.
XX
AC ADA54522;
XX
DT 20-NOV-2003 (first entry)
XX
DE Human protein, SEQ ID 2090.
XX
KW Cytostatic; Anti-inflammatory; Osteopathic; Neuroprotective; Nootropic;
KW Gene Therapy; human; secretory protein; membrane proteins; cancer;
KW inflammatory disease; osteoporosis; neurological disease.
XX
OS Homo sapiens.
XX
FN EP1293569-A2.
XX
PD 19-MAR-2003.
XX
PF 21-MAR-2002; 2002EP-00006586.
XX
PR 14-SEP-2001; 2001JP-00328381.
PR 24-JAN-2002; 2002US-0350435P.
XX
PA (HELI-) HELIX RES INST.
PA (REAS-) RES ASSOC BIOTECHNOLOGY.
XX
PI Isogai T, Sugiyama T, Otsuki T, Wakamatsu A, Sato H, Ishii S;
PI Yamamoto J, Isono Y, Hio Y, Otsuka K, Nagai K, Irie R, Tamechika I;
PI Seki N, Yoshikawa T, Otsuka M, Nagahari K, Masuho Y;
XX
DR WPI; 2003-395539/38.
DR N-PSDB; ADA52883.
XX
PT New polynucleotides encoding full-length polypeptides, e.g. secretory
PT and/or membrane proteins, useful for developing medicines for diseases in
PT which the gene is involved, or as target molecules for gene therapy.
XX
PS Claim 14; SEQ ID NO 2090; 205pp; English.
XX

CC The present invention relates to novel human secretory or membrane
CC proteins (ADA54072-ADA55710) and their coding sequences (ADA52433-
CC ADA54071). The coding sequences are useful in the gene therapy of
CC diseases caused by abnormalities of the proteins, e.g. cancer,
CC inflammatory diseases, osteoporosis or neurological disease.
XX
SQ Sequence 374 AA;

Query Match 100.0%; Score 1115; DB 6; Length 374;
Best Local Similarity 100.0%; Pred. No. 1.9e-104;
Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATGRLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEAEACRRDGGQLVSESEDEQKL 60
Db 22 ATGRLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEAEACRRDGGQLVSESEDEQKL 81
QY 61 IEKFIENLLPSDGDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEV 120
Db 82 IEKFIENLLPSDGDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEV 141
QY 121 CVVMYHQPSAPAGIGGYPYFQWDDRCNMKNFNICKYSDEKPAVPSREAEGETELTPV 180
Db 142 CVVMYHQPSAPAGIGGYPYFQWDDRCNMKNFNICKYSDEKPAVPSREAEGETELTPV 201
QY 181 LPETQEEDAKKTFKESREAAALNLAY 206
Db 202 LPETQEEDAKKTFKESREAAALNLAY 227

RESULT 6
AAM25796
ID AAM25796 standard; protein; 387 AA.
XX
AC AAM25796;
XX
DT 16-OCT-2001 (first entry)
XX
DE Human protein sequence SEQ ID NO:1311.
XX
KW Human; cancer; ulcer; HIV infection; human immunodeficiency virus;
KW antiinflammatory; antirheumatic; antiarthritic; immunosuppressive;
KW antibacterial; endocrine; cardiac; central nervous system; virucide;
KW anti-HIV; fungicide; antimutagen; cardiovascular; antianaemic; anaemia;
KW antiaggregant; haemostatic; vulnery; antiulcer; osteopathic; eczema;
KW dermatological; antiallergic; antiasthmatic; antidiabetic; cytostatic;
KW neuroprotective; antidepressant; nootropic; antiparkinsonian; infection;
KW immunostimulant; gene therapy; antisense therapy; vaccine; inflammation;
KW antianaphylactic; rheumatoid arthritis; septic shock; pancreatitis;
KW cardiac dysfunction; neuropathology; cardiac anaphylaxis; autoimmunity;
KW genetic disease; haematopoietic disorder; platelet disorder; asthma;
KW thrombocytopaenia; osteoporosis; severe combined immunodeficiency;
KW allergic rhinitis; diabetes; multiple sclerosis; depression;
KW Alzheimer's disease; Parkinson's disease; neurodegenerative disorder;
KW neurological disorder.
XX
OS Homo sapiens.
XX
FN WO200153455-A2.
XX
PD 26-JUL-2001.
XX
PF 22-DEC-2000; 2000WO-US035017.
XX
PR 23-DEC-1999; 99US-00471275.
PR 21-JAN-2000; 2000US-00488725.
PR 25-APR-2000; 2000US-00552317.
XX
PA (HYSE-) HYSEQ INC.
XX
PI Tang YT, Liu C, Drmanac RT;
XX
DR WPI; 2001-457603/49.
DR N-PSDB; AAH99737.

XX Isolated human polynucleotides encoding polypeptides; useful for the
PT treatment and diagnosis of e.g. cancer, ulcers and HIV infection.
XX
PS Claim 20; Page 272; 1217pp; English.
XX
CC AAH99166 to AAH99904 encode the human proteins given in AAM25225 to
CC AAM25963. The proteins can have activities based on the tissues and cells
CC they are expressed in, such as: antiinflammatory; antirheumatic;
CC antiarthritic; immunosuppressive; antibacterial; endocrine; cardiac;
CC central nervous system; virucide; anti-HIV; fungicide; antimutagen;
CC cardiovascular; antianaemic; antiaggregant; haemostatic; vulnerary;
CC antiulcer; osteopathic; dermatologic; antiallergic; antiasthmatic;
CC antidiabetic; cytostatic; neuroprotective; antidepressant; nootropic;
CC antiparkinsonian; and immunostimulant. The proteins and polynucleotides
CC encoding them can be used in gene therapy, antisense therapy and vaccine
CC production. The proteins and polynucleotides are useful for screening for
CC agonists or antagonists of a protein and for the treatment and diagnosis
CC of disorders associated with the activity of a protein e.g. inflammation,
CC rheumatoid arthritis, septic shock, pancreatitis, cardiac dysfunction,
CC neuropathology, cardiac anaphylaxis, viral, bacterial, HIV and fungal
CC infections, autoimmunity, genetic diseases, haematopoietic disorders,
CC anaemia, platelet disorders, thrombocytopaenia, wounds, burns, ulcers,
CC osteoporosis, severe combined immunodeficiency, eczema, allergic
CC rhinitis, asthma, diabetes, cancer, multiple sclerosis, depression,
CC Alzheimer's disease, Parkinson's disease, neurodegenerative and
CC neurological disorders
XX
SQ Sequence 387 AA;

Query Match 100.0%; Score 1115; DB 4; Length 387;
Best Local Similarity 100.0%; Pred. No. 2e-104;
Matches 206; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATGRLLSGQPVCRGGTQPCVKYVYFHDTSRRLNFEAAKEACRRDGGQLVSISEDEQKL 60
DB 35 ATGRLLSGQPVCRGGTQPCVKYVYFHDTSRRLNFEAAKEACRRDGGQLVSISEDEQKL 94
QY 61 IEKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEV 120
DB 95 IEKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEV 154
QY 121 CVVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGEETLTPV 180
DB 155 CVVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGEETLTPV 214
QY 181 LPEETQEDAKKTFKESREAAALNLAY 206
DB 215 LPEETQEDAKKTFKESREAAALNLAY 240

RESULT 7
ADA54574
ID ADA54574 standard; protein; 374 AA.
XX
AC ADA54574;
XX
DT 20-NOV-2003 (first entry)
XX
DE Human protein, SEQ ID 2142.
XX
KW Cytostatic; Anti-inflammatory; Osteopathic; Neuroprotective; Nootropic;
KW Gene Therapy; human; secretory protein; membrane proteins; cancer;
KW inflammatory disease; osteoporosis; neurological disease.
XX
OS Homo sapiens.
XX
PN EP1293569-A2.
XX
PD 19-MAR-2003.
XX
PF 21-MAR-2002; 2002BP-00006586.

PR 14-SEP-2001; 2001JP-00328381.
PR 24-JAN-2002; 2002US-0350435P.
XX
PA (HELI-) HELIX RES INST.
PA (REAS-) RES ASSOC BIOTECHNOLOGY.

XX Isogai T, Sugiyama T, Otsuki T, Wakamatsu A, Sato H, Ishii S;
PI Yamamoto J, Isono Y, Hio Y, Otsuka K, Nagai K, Irie R, Tamechika I;
PI Seki N, Yoshikawa T, Otsuka M, Nagahari K, Masuho Y;
XX
DR WPI; 2003-395539/38.
DR N-PSDB; ADA52935.

XX New polynucleotides encoding full-length polypeptides, e.g. secretory
PT and/or membrane proteins, useful for developing medicines for diseases in
PT which the gene is involved, or as target molecules for gene therapy.

PS Claim 14; SEQ ID NO 2142; 205pp; English.

XX The present invention relates to novel human secretory or membrane
CC proteins (ADA54072-ADA55710) and their coding sequences (ADA52433-
CC ADA54071). The coding sequences are useful in the gene therapy of
CC diseases caused by abnormalities of the proteins, e.g. cancer,
CC inflammatory diseases, osteoporosis or neurological disease.

SQ Sequence 374 AA;

Query Match 99.6%; Score 1111; DB 6; Length 374;
Best Local Similarity 99.5%; Pred. No. 4.8e-104;
Matches 205; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATGRLLSGQPVCRGGTQPCVKYVYFHDTSRRLNFEAAKEACRRDGGQLVSISEDEQKL 60
DB 22 ATGRLLSGQPVCRGGTQPCVKYVYFHDTSRRLNFEAAKEACRRDGGQLVSISEDEQKL 81
QY 61 IEKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEV 120
DB 82 IEKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEV 141
QY 121 CVVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGEETLTPV 180
DB 142 CVVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGEETLTPV 201
QY 181 LPEETQEDAKKTFKESREAAALNLAY 206
DB 202 LPEETQEDAKKTFKESREAAALNLAY 227

RESULT 8
AA91490
ID AA91490 standard; protein; 374 AA.
XX
AC AA91490;
XX
DT 29-JUN-2000 (first entry)
XX
DE Human secreted protein sequence encoded by gene 40 SEQ ID NO:163.
XX
KW Human; secreted protein; diagnosis; cytostatic; immunosuppressive;
KW antiHIV; antiinflammatory; nootropic; neuroprotective; antiallergic;
KW osteopathic; antiarthritic; antibacterial; antidiabetic; antiasthma;
KW antipsoriatic; cardiant; gene therapy; cancer; neurological disorder;
KW immune disease; inflammation; blood disorder; tumour.

OS Homo sapiens.
XX
PN WO200006698-A1.
XX
PD 10-FEB-2000.
XX
PF 29-JUL-1999; 99WO-US017130.
XX
PF 30-JUL-1998; 98US-0094657P.

PR	05-AUG-1998;	98US-0095486P.	
PR	06-AUG-1998;	98US-0095454P.	
PR	06-AUG-1998;	98US-0095455P.	
PR	12-AUG-1998;	98US-0096319P.	
XX			
PA	(HUMA-) HUMAN GENOME SCI INC.		
XX			
PI	Komatsoulis GA, Rosen CA, Ruben SM, Duan R, Moore PA, Shi Y;		
PI	Lafleur D, Wei Y, Ni J, Florence KA, Young PE, Brewer LA;		
PI	Soppet DR, Endress GA, Ebner R, Olsen HS, Mucenski M;		
XX			
DR	WPI; 2000-195282/17.		
DR	N-PSDB; AAA26385.		
XX			
PT	New isolated human genes and the secreted polypeptides they encode,		
PT	useful for diagnosis and treatment of e.g. cancers, neurological		
PT	disorders, immune diseases, inflammation or blood disorders.		
XX			
PS	Claim 11; Page 483-484; 634pp; English.		
XX			
CC	The polynucleotide sequences given in AAA26346 to AAA26458 encode the		
CC	human secreted proteins given in AAY91451 to AAY91691. The human secreted		
CC	proteins can have activities based on the tissues and cells they are		
CC	expressed in. Examples of the activities are: cytostatic;		
CC	immunosuppressive; antiHIV; antiinflammatory; neurotropic; neuroprotective;		
CC	antiallergic; osteopathic; antiarthritic; antibacterial; antidiabetic;		
CC	asthma; antipsoriatic; and cardiant. The polynucleotides and their		
CC	corresponding secreted proteins are useful for preventing, treating or		
CC	ameliorating medical conditions, e.g. by protein or gene therapy. Also		
CC	pathological conditions can be diagnosed by determining the amount of the		
CC	proteins in a sample or by determining the presence of mutations in the		
CC	polynucleotides. Specific uses are described for each of the		
CC	polynucleotides, based on which tissues they are most highly expressed		
CC	in, and include developing products for the diagnosis or treatment of		
CC	cancer, tumours, neurodegenerative disorders, developmental abnormalities		
CC	and foetal deficiencies, blood disorders, diseases of the immune system,		
CC	autoimmune diseases, hepatic and renal disease, inflammation, allergies,		
CC	Alzheimer's and behavioural disorders, schizophrenia, osteoporosis,		
CC	arthritis, infections, AIDS, spinal cord injuries, transplant rejection,		
CC	diabetes, asthma, sepsis, acne, psoriasis, cardiovascular disorders,		
CC	reproductive disorders, gastrointestinal disorders, respiratory disorders		
CC	and metabolic disorders. The proteins or polynucleotides can also be used		
CC	as food additives or preservatives. The proteins are also useful for		
CC	identifying their binding partners. AAA26337 to AAA26345 and AAY91450 are		
CC	sequences used in the exemplification of the present invention		
XX			
SQ	Sequence 374 AA;		
Query Match 99.1%; Score 1105; DB 3; Length 374;			
Best Local Similarity 99.0%; Pred. No. 2e-103;			
Matches 204; Conservative 0; Mismatches 2; Indels 0; Gaps 0;			
QY	1	ATGRLLSGQPVCRGGTQPCYKVIYFHDTSRRLLNFEEAKEACRRDGGQLVSI	60
Db	22	ATGRLLSGQPVCRGGTQPCYKVIYFHDTSRRLLNFEEAKEACRRDGGQLVSI	81
QY	61	IEKFIENLLPSDGFWIGLRRREKQNSNACQDLYAWTDGSIQFRNWWYDEP	120
Db	82	IEKFIENLLPSDGFWIGLRRREKQNSNACQDLYAWTDGSIQFRNWWYDEP	141
QY	121	CVVMYHQPSAPAGIGGPFYQWDDRCNMKNNFICKYDEKPAVPSREAEGE	180
Db	142	CVVMYHQPSAPAGIGGPFYQWDDRCNMKNNFICKYDEKPAVPSREAEGE	201
QY	181	LPEETQEEADAKTKPKESREAAALNLAY	206
Db	202	LPEETQEEADAKTKPKESREAAALNLAY	227
RESULT 9			
AAY13367			
ID AAY13367 standard; protein; 382 AA.			
XX			

AC	AAY13367;		
XX			
DT	25-JUN-1999 (first entry)		
XX			
DE	Amino acid sequence of protein PRO234.		
XX			
KW	Secreted protein; transmembrane protein; human; enterocolitis;		
KW	Zollinger-Ellison syndrome; gastrointestinal ulceration;		
KW	congenital microvillus atrophy; skin disease; cell growth;		
KW	abnormal keratinocyte differentiation; psoriasis; epithelial cancer;		
KW	Parkinson's disease; Alzheimer's disease; ALS; neuropathy; fibromodulin;		
KW	dermal scarring; Usher Syndrome; Atrophia areata; anti-thrombotic;		
KW	wound healing; tissue repair.		
XX			
OS	Homo sapiens.		
XX			
PN	WO9914328-A2.		
XX			
PD	25-MAR-1999.		
XX			
PF	16-SEP-1998; 98WO-US019330.		
XX			
PR	17-SEP-1997; 97US-0059113P.		
PR	17-SEP-1997; 97US-0059115P.		
PR	17-SEP-1997; 97US-0059117P.		
PR	17-SEP-1997; 97US-0059119P.		
PR	17-SEP-1997; 97US-0059121P.		
PR	17-SEP-1997; 97US-0059122P.		
PR	17-SEP-1997; 97US-0059184P.		
PR	18-SEP-1997; 97US-0059263P.		
PR	18-SEP-1997; 97US-0059266P.		
PR	15-OCT-1997; 97US-0062125P.		
PR	17-OCT-1997; 97US-0062285P.		
PR	17-OCT-1997; 97US-0062287P.		
PR	21-OCT-1997; 97US-0063486P.		
PR	24-OCT-1997; 97US-0062814P.		
PR	24-OCT-1997; 97US-0062816P.		
PR	24-OCT-1997; 97US-0063045P.		
PR	24-OCT-1997; 97US-0063120P.		
PR	24-OCT-1997; 97US-0063121P.		
PR	24-OCT-1997; 97US-0063128P.		
PR	27-OCT-1997; 97US-0063327P.		
PR	27-OCT-1997; 97US-0063329P.		
PR	28-OCT-1997; 97US-0063541P.		
PR	28-OCT-1997; 97US-0063542P.		
PR	28-OCT-1997; 97US-0063544P.		
PR	28-OCT-1997; 97US-0063549P.		
PR	28-OCT-1997; 97US-0063550P.		
PR	28-OCT-1997; 97US-0063564P.		
PR	29-OCT-1997; 97US-0063435P.		
PR	29-OCT-1997; 97US-0063704P.		
PR	29-OCT-1997; 97US-0063732P.		
PR	29-OCT-1997; 97US-0063734P.		
PR	29-OCT-1997; 97US-0063735P.		
PR	29-OCT-1997; 97US-0063738P.		
PR	29-OCT-1997; 97US-0064215P.		
PR	31-OCT-1997; 97US-0063870P.		
PR	31-OCT-1997; 97US-0064103P.		
PR	03-NOV-1997; 97US-0064248P.		
PR	07-NOV-1997; 97US-0064809P.		
PR	12-NOV-1997; 97US-0065186P.		
PR	17-NOV-1997; 97US-0065846P.		
PR	18-NOV-1997; 97US-0065693P.		
PR	21-NOV-1997; 97US-0066120P.		
PR	21-NOV-1997; 97US-0066364P.		
PR	24-NOV-1997; 97US-0066453P.		
PR	24-NOV-1997; 97US-0066466P.		
PR	24-NOV-1997; 97US-0066511P.		
PR	24-NOV-1997; 97US-0066770P.		
PR	24-NOV-1997; 97US-0066772P.		
PR	25-NOV-1997; 97US-0066840P.		
XX			

PA (GETH) GENENTECH INC.
XX Wood WI, Gurney AL, Goddard A, Pennica D, Chen J, Yuan J;
PI WPI; 1999-229533/19.
XX N-PSDB; AAX52238.
DR New isolated human genes and polypeptides used in, e.g. treatment of
XX gastrointestinal ulceration.
PT Claim 12; Fig 50; 320pp; English.
PS
XX
CC AAY1344-403 represent secreted and transmembrane human proteins. The
CC CDNA sequences are obtained from cDNA libraries, prepared from fetal
CC lung, fetal kidney, fetal brain, fetal liver and fetal retina. The
CC encoded polypeptides have specific uses based on their homology to known
CC polypeptides, e.g. PRO211 and PRO217 can be used for disorders associated
CC with the preservation and maintenance of gastrointestinal mucosa and the
CC repair of acute and chronic mucosal lesions (e.g. enterocolitis,
CC Zollinger-Ellison syndrome, gastrointestinal ulceration and congenital
CC microvillus atrophy), skin diseases associated with abnormal keratinocyte
CC differentiation (e.g. psoriasis, epithelial cancers such as lung squamous
CC cell carcinoma of the vulva and gliomas), potent effects on cell growth
CC and development, diseases related to growth or survival of nerve cells
CC including Parkinson's disease, Alzheimer's disease, ALS, neuropathies or
CC cancer. PRO265 can be used as for fibromodulin, e.g. for reducing dermal
CC scarring. PRO264 can be used as a target for anti-tumor drugs. PRO269 can
CC be used in the treatment of Usher Syndrome or Atrophia areata; PRO269 can
CC be used as an anti-thrombotic agent; PRO287 polypeptides and portions may
CC have therapeutic applications in wound healing and tissue repair; PRO317
CC can be used for treating problems of the kidney, uterus, endometrium,
CC blood vessels, or related tissue, e.g. in the heart of genital tract
XX
SQ Sequence 382 AA;

Query Match 98.7%; Score 1101; DB 2; Length 382;
Best Local Similarity 96.3%; Pred. No. 5.2e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
QY 1 ATGRLLS-----GQPVCRGGTQRPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI 52
Db 22 ATGRLLSASDLDLRGGQPVCRGGTQRPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI 81
QY 53 ESEDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 112
Db 82 ESEDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 141
QY 113 EPSCGSEVCVMYHQPSAPAGIGGYPYMFQWDDRCNMKNFICKYSDEKPAVPSREAAGE 172
Db 142 EPSCGSEVCVMYHQPSAPAGIGGYPYMFQWDDRCNMKNFICKYSDEKPAVPSREAAGE 201
QY 173 ETELTPVLPEETOEDAKKTFKESREAALNLAY 206
Db 202 ETELTPVLPEETOEDAKKTFKESREAALNLAY 235

RESULT 10
ADC78457
ID ADC78457 standard; protein; 382 AA.
XX
AC ADC78457;
XX
XX 01-JAN-2004 (first entry)
XX Human PRO234 protein.
XX
KW antiinflammatory; antiulcer; cytostatic; antipsoriatic; antiparkinsonian;
KW nootropic; neuroprotective; vasotropic; chemotactic; angiogenic;
KW neurotrophic; osteopathic; antiasthmatic; antiarthritic; antirheumatic;
KW antiarteriosclerotic; cardiant; antidiabetic; cerebroprotective;
KW thrombolytic; immunomodulator; enterocolitis; Zollinger-Ellison syndrome;
KW gastrointestinal ulceration; psoriasis; cancer; Parkinson's disease;
KW Alzheimer's; ALS; neuropathy; dermal scarring; wound healing;

KW nerve repair; thrombosis; bone; cartilage formation; angiogenesis;
KW asthma; rheumatoid arthritis; multiple sclerosis; inflammatory disorder;
KW atherosclerosis; cardiac injury; infertility; premature aging; AIDS;
KW diabetes; stroke; gene therapy; transgenic; PRO; human.
XX
OS Homo sapiens.
XX
XX WO200015796-A2.
XX
XX 23-MAR-2000.
XX
XX 15-SEP-1999; 99WO-US021090.
XX
XX 16-SEP-1998; 98WO-US019330.
XX
XX (GETH) GENENTECH INC.
XX
PI Chen J, Goddard A, Gurney AL, Hillan K, Pennica D, Wood WI;
PI Yuan J;
XX
XX WPI; 2000-271434/23.
DR N-PSDB; ADC78456.
XX
PT Novel nucleic acids encoding secreted and transmembrane polypeptides with
PT homology, e.g. to growth and cancer-associated antigens.
XX
XX Claim 12; SEQ ID NO 137; 355pp; English.
XX
CC The invention relates to a novel nucleic acid encoding a PRO polypeptide.
CC The polypeptides and polynucleotides of the invention may be useful as
CC research tools and as therapeutics for treating enterocolitis, Zollinger-
CC Ellison syndrome, gastrointestinal ulceration, psoriasis, cancer,
CC Parkinson's disease, Alzheimer's disease, ALS, neuropathies, dermal
CC scarring and wound healing, nerve repair, thrombosis, bone and/or
CC cartilage formation, angiogenesis, asthma, rheumatoid arthritis, multiple
CC sclerosis, inflammatory disorders, atherosclerosis, cardiac injury,
CC infertility, premature aging, AIDS, diabetes complications and stroke.
CC The molecules may also be utilised during gene therapy procedures and
CC transgenic animal production. The current sequence is that of the human
CC PRO protein of the invention.
XX
SQ Sequence 382 AA;

Query Match 98.7%; Score 1101; DB 3; Length 382;
Best Local Similarity 96.3%; Pred. No. 5.2e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
QY 1 ATGRLLS-----GQPVCRGGTQRPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI 52
Db 22 ATGRLLSASDLDLRGGQPVCRGGTQRPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI 81
QY 53 ESEDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 112
Db 82 ESEDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 141
QY 113 EPSCGSEVCVMYHQPSAPAGIGGYPYMFQWDDRCNMKNFICKYSDEKPAVPSREAAGE 172
Db 142 EPSCGSEVCVMYHQPSAPAGIGGYPYMFQWDDRCNMKNFICKYSDEKPAVPSREAAGE 201
QY 173 ETELTPVLPEETOEDAKKTFKESREAALNLAY 206
Db 202 ETELTPVLPEETOEDAKKTFKESREAALNLAY 235

RESULT 11
AAB80235
ID AAB80235 standard; protein; 382 AA.
XX
AC AAB80235;
XX
DT 24-APR-2001 (first entry)
XX
DE Human PRO234 protein.

Human; PRO; dermatological; antipsoriatic; cytostatic; antiinflammatory; antiparkinsonian nootropic; neuroprotective; vulnerary; cardiant; antiangiogenic; vasotropic; antiasthmatic; antirheumatic; cancer; antiarthritic; antiinfertility; antidiabetic; antiviral; diabetes; ophthalmological; gene therapy; skin disease; gastrointestinal disorder; ischaemia; inflammation.

Homo sapiens.

WO200104311-A1.

18-JAN-2001.

22-FEB-2000; 2000WO-US004414.

07-JUL-1999; 99US-0143048P.
26-JUL-1999; 99US-0145698P.
28-JUL-1999; 99US-0146222P.
08-SEP-1999; 99WO-US020594.
13-SEP-1999; 99WO-US020944.
15-SEP-1999; 99WO-US021090.
15-SEP-1999; 99WO-US021547.
05-OCT-1999; 99WO-US023089.
29-NOV-1999; 99WO-US028214.
30-NOV-1999; 99WO-US028313.
02-DEC-1999; 99WO-US028564.
02-DEC-1999; 99WO-US028565.
16-DEC-1999; 99WO-US030095.
20-DEC-1999; 99WO-US030911.
20-DEC-1999; 99WO-US030999.
05-JAN-2000; 2000WO-US000219.

(GETH) GENENTECH INC.

Ashkenazi AJ, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
Godowski PJ, Grimaldi CJ, Gurney AL, Hillan KJ, Kljavin IJ;
Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
Williams PM, Wood WI;

WPI; 2001-081051/09.
N-PSDB; AAF72396.

Sixty one nucleic acids encoding PRO polypeptides which are useful in the treatment of skin diseases (e.g. psoriasis), cancers (e.g. lung squamous cell carcinoma) and neurodegenerative diseases (e.g. Alzheimer's disease).

Claim 1; Fig 50; 393pp; English.

The present sequence is one of sixty one novel secreted and transmembran PRO polypeptides. The PRO polypeptides are useful for treating skin diseases (e.g. psoriasis), cancers (e.g. lung squamous cell carcinoma), gastrointestinal disorders (e.g. enterocolitis), neurodegenerative diseases (e.g. Alzheimer's disease, Parkinson's disease), wound repair, cardiovascular disorders (e.g. endometrial bleeding angiogenesis, ischaemias such as coronary ischaemia, atherosclerosis), inflammatory disorders (e.g. asthma, rheumatoid arthritis, multiple sclerosis), infertility, AIDS and diabetes and retinal disorders such as retinitis pigmentosum. The PRO nucleic acids have applications in molecular biology, including use as hybridization probes, and in chromosome and gene mapping

Sequence 382 AA;

QY	53	ESEDEQKLIETFIENLLPSDGFWIGLRRREKQSNSTACQDLIYA	WTGDSISQFRNWYVD	111
Dd	82	ESEDEQKLIETFIENLLPSDGFWIGLRRREKQSNSTACQDLIYA	WTGDSISQFRNWYVD	141
QY	113	EPSCGSEVGVVMYHQPSAPAGIGGPYMFQWNDDRCNMKNFICKYS	DEKPAVPSPREAEGE	172
Dd	142	EPSCGSEVGVVMYHQPSAPAGIGGPYMFQWNDDRCNMKNFICKYS	DEKPAVPSPREAEGE	201
QY	173	ETELTTPVLPEETQEEDAKTKPKESREAAALNLAY	206	
Dd	202	ETELTTPVLPEETQEEDAKTKPKESREAAALNLAY	235	
 RESULT 12 AAU29033				
ID	AAU29033	standard; protein; 382 AA.		
XX				
AC	AAU29033;			
XX				
DT	18-DEC-2001	(first entry)		
XX				
DE	Human PRO polypeptide sequence #10.			
XX				
KW	PRO polypeptide; mammal; tumour; cancer; human; cattle; horse; sheep;			
KW	dog; cat; pig; goat; rabbit; tumour necrosis factor alpha; TNF-alpha;			
KW	blood; chondrocyte cell; cell proliferation; cell differentiation; colon;			
KW	adrenal; lung; breast; prostate; rectum; cervix; liver; genetic disorder.			
XX				
OS	Homo sapiens.			
XX				
PN	WC200168848-A2.			
XX				
PD	20-SEP-2001.			
XX				
PF	28-FEB-2001; 2001WO-US006520.			
XX				
PR	01-MAR-2000; 2000WO-US005601.			
PR	02-MAR-2000; 2000WO-US005841.			
PR	03-MAR-2000; 2000US-0187202P.			
PR	06-MAR-2000; 2000US-0186968P.			
PR	14-MAR-2000; 2000US-0189320P.			
PR	14-MAR-2000; 2000US-0189328P.			
PR	15-MAR-2000; 2000WO-US006884.			
PR	21-MAR-2000; 2000US-0190828P.			
PR	21-MAR-2000; 2000US-0191007P.			
PR	21-MAR-2000; 2000US-0191048P.			
PR	21-MAR-2000; 2000US-0191314P.			
PR	28-MAR-2000; 2000US-0192655P.			
PR	29-MAR-2000; 2000US-0193032P.			
PR	29-MAR-2000; 2000US-0193053P.			
PR	30-MAR-2000; 2000WO-US008439.			
PR	04-APR-2000; 2000US-0194449P.			
PR	04-APR-2000; 2000US-0194647P.			
PR	11-APR-2000; 2000US-0195975P.			
PR	11-APR-2000; 2000US-0196000P.			
PR	11-APR-2000; 2000US-0196187P.			
PR	11-APR-2000; 2000US-0196690P.			
PR	11-APR-2000; 2000US-0196820P.			
PR	18-APR-2000; 2000US-0198121P.			
PR	18-APR-2000; 2000US-0198585P.			
PR	25-APR-2000; 2000US-0199397P.			
PR	25-APR-2000; 2000US-0199550P.			
PR	25-APR-2000; 2000US-0199654P.			
PR	03-MAY-2000; 2000US-0201516P.			
PR	17-MAY-2000; 2000WO-US013705.			
PR	22-MAY-2000; 2000WO-US014042.			
PR	30-MAY-2000; 2000WO-US014941.			
PR	02-JUN-2000; 2000WO-US015264.			
PR	05-JUN-2000; 2000US-0209832P.			
PR	28-JUL-2000; 2000WO-US020710.			
PR	22-AUG-2000; 2000US-00644848.			
PR	24-AUG-2000; 2000WO-US023328.			

PR 08-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000WO-US034956.
XX
XX
PA (GETH) GENENTECH INC.
XX
XX Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX
XX WPI; 2001-602746/68.
DR N-PSDB; AAS45934.
XX
XX Novel nucleic acids encoding PRO polypeptides, used to diagnose the
PT presence of tumors, such as prostate and breast tumors, in mammals and to
PT screen for modulators of the compounds.
PT
XX
XX Claim 11; Fig 20; 774pp; English.
PS
XX
XX Sequences AAU29024-AAU29328 represent PRO polypeptides of the invention.
CC The PRO polypeptides and their associated nucleic acids can be used to
CC detect the presence of a tumour in a mammal by comparing the level of
CC expression of a PRO polypeptide in a test sample of cells from the animal
CC and a control sample of normal cells, whereby a higher level of
CC expression in the test sample indicates the presence of a tumour in the
CC mammal. Mammals include dogs, cats, cattle, horses, sheep, pigs, goats
CC and rabbits but are preferably human. The polypeptides can be used to
CC stimulate tumour necrosis factor (TNF) alpha release from human blood,
CC when contacted with it. A specific polypeptide can be used to stimulate
CC the proliferation or differentiation of chondrocyte cells. The PRO
CC proteins can be used to determine the presence of tumours and also
CC susceptibility to tumour development, particularly adrenal, lung, colon,
CC breast, prostate, rectal, cervical, or liver tumours, in mammalian
CC subjects. The oligonucleotide probes specific for the PRO nucleic acids
CC can be used for genetic analysis of individuals with genetic disorders
XX
SQ Sequence 382 AA;

Query Match 98.7%; Score 1101; DB 4; Length 382;
Best Local Similarity 96.3%; Pred. No. 5.2e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQVCRGGTQRPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI 52
Db |||||
22 ATGRLLSASDLDLRGGQPVCEGGTQRPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI 81
QY 53 ESEDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 112
Db |||||
82 ESEDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 141
QY 113 EPSCGSEVCVMYHQPAPAGIGGPFYMFQWDDRCNMKNPFICKYSDEKPAVPSREAEGE 172
Db |||||
142 EPSCGSEVCVMYHQPAPAGIGGPFYMFQWDDRCNMKNPFICKYSDEKPAVPSREAEGE 201
QY 173 ETELTTPVLPEETOEDAKKTFKESREAALNLAY 206
Db |||||
202 ETELTTPVLPEETOEDAKKTFKESREAALNLAY 235

RESULT 13
ABU58409
ID ABU58409 standard; protein; 382 AA.
XX
XX AC ABU58409;
XX
XX DT 15-APR-2003 (first entry)
XX
XX DE Human PRO polypeptide #10.
XX
KW Human; PRO; cytostatic; tumour; cancer; breast; lung; stomach; liver;
KW dog; cat; cow; horse; sheep; pig; goat; rabbit; ADEPT;
KW antibody-dependent enzyme mediated prodrug therapy.
XX
OS Homo sapiens.

XX
PN US2003027272-A1.
XX
PD 06-FEB-2003.
XX
PF 21-JUN-2002; 2002US-00176492.
XX
XX 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
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PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
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PR 15-MAY-1998; 98US-0085582P.
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PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.

PR	04-JUN-1998;	98US-0088326P.
PR	05-JUN-1998;	98US-0088167P.
PR	05-JUN-1998;	98US-0088202P.
PR	05-JUN-1998;	98US-0088212P.
PR	05-JUN-1998;	98US-0088217P.
PR	09-JUN-1998;	98US-0088655P.
PR	10-JUN-1998;	98US-0088722P.
PR	10-JUN-1998;	98US-0088738P.
PR	10-JUN-1998;	98US-0088740P.
PR	10-JUN-1998;	98US-0088811P.
PR	10-JUN-1998;	98US-0088824P.
PR	10-JUN-1998;	98US-0088825P.
PR	10-JUN-1998;	98US-0088826P.
PR	11-JUN-1998;	98US-0088861P.
PR	11-JUN-1998;	98US-0088863P.
PR	11-JUN-1998;	98US-0088876P.
PR	12-JUN-1998;	98US-0089090P.
PR	12-JUN-1998;	98US-0089105P.
PR	16-JUN-1998;	98US-0089512P.
PR	16-JUN-1998;	98US-0089514P.
PR	17-JUN-1998;	98US-0089538P.
PR	17-JUN-1998;	98US-0089653P.
PR	18-JUN-1998;	98US-0089908P.
PR	19-JUN-1998;	98US-0089952P.
PR	22-JUN-1998;	98US-0090246P.
PR	22-JUN-1998;	98US-0090252P.
PR	22-JUN-1998;	98US-0090254P.
PR	24-JUN-1998;	98US-0090429P.
PR	24-JUN-1998;	98US-0090435P.
PR	24-JUN-1998;	98US-0090444P.
PR	24-JUN-1998;	98US-0090461P.
PR	24-JUN-1998;	98US-0090535P.
PR	24-JUN-1998;	98US-0090540P.
PR	25-JUN-1998;	98US-0090676P.
PR	25-JUN-1998;	98US-0090678P.
PR	25-JUN-1998;	98US-0090688P.
PR	25-JUN-1998;	98US-0090690P.
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PR	25-JUN-1998;	98US-0090695P.
PR	25-JUN-1998;	98US-0090696P.
PR	26-JUN-1998;	98US-00105413.
PR	26-JUN-1998;	98US-0090862P.
PR	26-JUN-1998;	98US-0090863P.
PR	26-JUN-1998;	98US-0091010P.
PR	01-JUL-1998;	98US-0091359P.
PR	01-JUL-1998;	98US-0091544P.
PR	02-JUL-1998;	98US-0091478P.
PR	02-JUL-1998;	98US-0091486P.
PR	02-JUL-1998;	98US-0091626P.
PR	02-JUL-1998;	98US-0091628P.
PR	02-JUL-1998;	98US-0091632P.
PR	24-JUL-1998;	98US-0094006P.
PR	04-AUG-1998;	98US-0095282P.
PR	10-AUG-1998;	98US-0095998P.
PR	10-AUG-1998;	98US-0096012P.
PR	17-AUG-1998;	98US-0096757P.
PR	17-AUG-1998;	98US-0096766P.
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PR	17-AUG-1998;	98US-0096891P.
PR	17-AUG-1998;	98US-0096897P.
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PR	18-AUG-1998;	98US-0096959P.
PR	18-AUG-1998;	98US-0097022P.
PR	26-AUG-1998;	98US-0097952P.
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PR	26-AUG-1998;	98US-0097955P.
PR	26-AUG-1998;	98US-0097971P.
PR	26-AUG-1998;	98US-0097974P.
PR	26-AUG-1998;	98US-0098014P.
PR	01-SEP-1998;	98US-0098716P.
PR	01-SEP-1998;	98US-0098723P.
PR	02-SEP-1998;	98US-0098803P.
PR	02-SEP-1998;	98US-0098821P.
PR	02-SEP-1998;	98US-0098843P.
PR	09-SEP-1998;	98US-0099602P.
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PR	10-SEP-1998;	98US-0099763P.
PR	10-SEP-1998;	98US-0099812P.
PR	15-SEP-1998;	98US-0100388P.
PR	16-SEP-1998;	98US-0100562P.
PR	16-SEP-1998;	98US-0100664P.
PR	16-SEP-1998;	98US-0101751P.
PR	16-SEP-1998;	98WO-US019330.
PR	17-SEP-1998;	98US-0100684P.
PR	17-SEP-1998;	98US-0100919P.
PR	17-SEP-1998;	98US-0100930P.
PR	18-SEP-1998;	98US-0100849P.
PR	18-SEP-1998;	98US-0101014P.
PR	18-SEP-1998;	98US-0101068P.
PR	23-SEP-1998;	98US-0101471P.
PR	23-SEP-1998;	98US-0101472P.
PR	23-SEP-1998;	98US-0101475P.
PR	24-SEP-1998;	98US-0101739P.
PR	24-SEP-1998;	98US-0101743P.
PR	24-SEP-1998;	98US-0101922P.
PR	25-SEP-1998;	98US-0101786P.
PR	29-SEP-1998;	98US-0102207P.
PR	29-SEP-1998;	98US-0102240P.
PR	29-SEP-1998;	98US-0102330P.
PR	29-SEP-1998;	98US-0102331P.
PR	30-SEP-1998;	98US-0102487P.
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PR	01-OCT-1998;	98US-0102687P.
PR	02-OCT-1998;	98US-0102965P.
PR	06-OCT-1998;	98US-0103258P.
PR	06-OCT-1998;	98US-0103449P.
PR	07-OCT-1998;	98US-00168978.
Query Match 98.7%; Score 1101; DB 6; Length 382;		
Best Local Similarity 96.3%; Pred. No. 5.2e-103;		
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;		
Qy	1	ATGRLLS-----QPVCRGGTQRPCYKVIYFHDTSRRLNFEFEAKACRRDGGQLVSI 52
Db	22	ATGRLLSASDLRLRGQPVCRCGTQRPCYKVIYFHDTSRRLNFEFEAKACRRDGGQLVSI 81
Qy	53	ESEDEQKLIKFIENLLPSDGDFFWIGLRRREKQSNSTACQDLYAWTDGSI SQFRNWWYVD 112
Db	82	ESEDEQKLIKFIENLLPSDGDFFWIGLRRREKQSNSTACQDLYAWTDGSI SQFRNWWYVD 141
Qy	113	EPSCGSEVCVMYHQPSAPAGIGGPFYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGE 172
Db	142	EPSCGSEVCVMYHQPSAPAGIGGPFYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGE 201
Qy	173	ETELTTPVLPEETQEDAKKTFKESREAAALNLAY 206
Db	202	ETELTTPVLPEETQEDAKKTFKESREAAALNLAY 235
RESULT 14		
ABU71613		
ID	ABU71613 standard; protein; 382 AA.	
XX		
AC	ABU71613;	
XX		
DT	16-JUN-2003 (first entry)	
XX		
DE	Human PRO polypeptide #24.	
XX		

KW Human; PRO; secreted polypeptide; transmembrane polypeptide;
KW pathological disorder; cardiac insufficiency disorder; protein secretion;
KW pancreas; diabetes; gastrointestinal mucosa; mucosal lesion; psoriasis;
KW skin disease; keratinocyte differentiation; epithelial cancer; tumour;
KW lung squamous cell carcinoma; epidermoid carcinoma; vulva; glioma;
KW cytostatic; cardiant; endocrine; antidiabetic; gastrointestinal;
KW antiulcer; dermatological; vulnerary.
XX
OS Homo sapiens.
XX
PN US2002146709-A1.
XX
PD 10-OCT-2002.
XX
PF 18-JUL-2001; 2001US-00909088.
XX
PR 17-SEP-1997; 97US-0059113P.
PR 17-SEP-1997; 97US-0059115P.
PR 17-SEP-1997; 97US-0059117P.
PR 17-SEP-1997; 97US-0059119P.
PR 17-SEP-1997; 97US-0059121P.
PR 17-SEP-1997; 97US-0059122P.
PR 17-SEP-1997; 97US-0059184P.
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 15-OCT-1997; 97US-0062125P.
PR 17-OCT-1997; 97US-0062285P.
PR 17-OCT-1997; 97US-0062287P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0062814P.
PR 24-OCT-1997; 97US-0062816P.
PR 24-OCT-1997; 97US-0063045P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 24-OCT-1997; 97US-0063127P.
PR 24-OCT-1997; 97US-0063128P.
PR 27-OCT-1997; 97US-0063327P.
PR 27-OCT-1997; 97US-0063329P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063542P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063549P.
PR 28-OCT-1997; 97US-0063550P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063435P.
PR 29-OCT-1997; 97US-0063704P.
PR 29-OCT-1997; 97US-0063732P.
PR 29-OCT-1997; 97US-0063734P.
PR 29-OCT-1997; 97US-0063735P.
PR 29-OCT-1997; 97US-0063738P.
PR 29-OCT-1997; 97US-0064215P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 03-NOV-1997; 97US-0064248P.
PR 07-NOV-1997; 97US-0064809P.
PR 12-NOV-1997; 97US-0065186P.
PR 17-NOV-1997; 97US-0065846P.
PR 18-NOV-1997; 97US-0065693P.
PR 21-NOV-1997; 97US-0066120P.
PR 21-NOV-1997; 97US-0066364P.
PR 24-NOV-1997; 97US-0066453P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066511P.
PR 24-NOV-1997; 97US-0066770P.
PR 24-NOV-1997; 97US-0066772P.
PR 10-SEP-1998; 98WO-US018824.
PR 14-SEP-1998; 98WO-US019177.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 01-DEC-1998; 98WO-US025108.
PR 08-SEP-1999; 99WO-US020594.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 05-OCT-1999; 99WO-US023089.
PR 29-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 02-DEC-1999; 99WO-US028564.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
PR 05-JAN-2000; 2000WO-US000219.
PR 11-FEB-2000; 2000WO-US003565.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 22-MAY-2000; 2000WO-US014042.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 24-AUG-2000; 2000WO-US023328.
PR 18-SEP-2000; 2000US-00665350.
XX
PA (GETH) GENENTECH INC.
XX
PI Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
PI Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
PI Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IJ;
PI Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
PI Williams PM, Wood WI;
XX
DR WPI; 2003-328338/31.
DR N-PSDB; ACA59008.
XX
PT Isolated nucleic acid useful for e.g., treating pathological disorders
PT encodes a secreted or transmembrane protein.
XX
PS Claim 12; Fig 50; 473pp; English.
XX
CC The invention relates to human PRO polypeptides (secreted or
CC transmembrane polypeptides) and the polynucleotides encoding them. The
CC PRO polypeptides and polynucleotides can be used in treating pathological
CC disorders and tumours, in therapeutic treatment of cardiac insufficiency
CC disorders and in therapeutic treatment of disorders involving protein
CC secretion by the pancreas, including diabetes. They can also be used in
CC treating disorders associated with the preservation and maintenance of
CC gastrointestinal mucosa and the repair of acute and chronic mucosal
CC lesions, and skin diseases associated with abnormal keratinocyte
CC differentiation (e.g., psoriasis, epithelial cancers such as lung
CC squamous cell carcinoma, epidermoid carcinoma of the vulva and gliomas).
CC The sequences can be used as molecular markers for protein
CC electrophoresis purposes and can be utilised in protein-protein binding
CC assays, biochemical screening assays, immunoassays and cell-based assays.
CC This sequence represents a human PRO polypeptide of the invention
XX
SQ Sequence 382 AA;
Query Match 98.7%; Score 1101; DB 6; Length 382;
Best Local Similarity 96.3%; Pred. No. 5.2e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
QY 1 ATGRLLS-----GQPVCRGGTQPCYKVIYFHDTSRRLNPFEEAKEACRRDGGQLVSI 52
Db |||||
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QY 53 ESEDEQKLEKFIENLLPSDGFWIGLRRREEKQSNSTACQDIYAWTDGSIQFRNWWYD 112
Db |||||
Db 82 ESEDEQKLEKFIENLLPSDGFWIGLRRREEKQSNSTACQDIYAWTDGSIQFRNWWYD 141
QY 113 EPSCGSEVCVMYHQPAPAGIGGPFYMFQWDDRCNMKNFNICKYSDEKPAVPSREAEGE 172
Db |||||
Db 142 EPSCGSEVCVMYHQPAPAGIGGPFYMFQWDDRCNMKNFNICKYSDEKPAVPSREAEGE 201

Qy 173 ETELTPVLPEETQEDAKKTFKESREAAALNLAY 206
Db 202 ETELTPVLPEETQEDAKKTFKESREAAALNLAY 235

RESULT 15

ABU87957
ID ABU87957 standard; protein; 382 AA.
XX
AC ABU87957;
XX
DT 07-JUL-2003 (first entry)
XX
DE Novel human secreted and transmembrane protein PRO234.
XX
KW Human; secreted and transmembrane protein; PRO; gene therapy;
KW tumour necrosis factor-alpha release; TNF-alpha release;
KW chondrocyte proliferation; chondrocyte differentiation; tumour;
KW adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
XX

OS Homo sapiens.

XX US2003032127-A1.

PN 13-FEB-2003.

XX 26-JUN-2002; 2002US-00183012.

PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
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PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
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PR 10-MAR-1998; 98US-0077450P.
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PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
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PR 01-APR-1998; 98US-0080333P.
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PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
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PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
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PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
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PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
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PR 16-JUN-1998; 98US-0089512P.
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PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
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PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
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PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
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PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.

QY	113	EPSCGSEVCVVMYHQPSAPAGIGGPYMFQWDDRCNNKNNFICKYSDEKPAVPSPREAEGE	172
Dd	142	EPSCGSEVCVVMYHQPSAPAGIGGPYMFQWDDRCNNKNNFICKYSDEKPAVPSPREAEGE	201
QY	173	ETELTTPVLPEETOEDAKTFKESREAALNLAY	206
Dd	202	ETELTTPVLPEETOEDAKTFKESREAALNLAY	235

RESULT 16
ABU84272

ABU84272
ID ABU84272 standard; protein; 382 AA.
XX
AC ABU84272;

AC ABU84272;

DT 02-AUG-2003 (first entry)

AA
DE
DE
yy
yy
Human secreted/transmembrane protein (PRO) #10.

XX Human: secreted and transmembrane protein; PRO;

OS Homo sapiens.

US2003032112-A1.

PD 13-FEB-2003.

21-JUN-2002; 2002US-00176756.

XX
PR 18-SEP-1997; 97US-0059263P.
DD 18-SEP-1997. 97US-0059265P.
DD 18-SEP-1997. 97US-0059265P.

PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063495D

PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.

PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
22 OCT 1997 0700 0002541P

PR 28-OCT-1997; 97US-006354LP.
PR 28-OCT-1997; 97US-006354P.
PR 28-OCT-1997; 97US-006354P.
PR 28-OCT-1997; 97US-006354P.

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PR 31-OCT-1997; 97US-0063870P.

PR 31-OCT-1997; 97US-0063870P.
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PR 12 NOV 1997. 87HC 0065311P.

PR	13-NOV-1997;	97US-0065311P.
PR	21-NOV-1997;	97US-0066120P.
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PR 24-NOV-1997; 97US-0066466P.
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PR 18-DEC-1997; 97US-0077450P.

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PR 31-MAR-1998; 98US-0080104P.

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PR 01-APR-1998; 98US-0080332P.

PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
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PR	09-APR-1998;	98US-0081195P.

PR 15-APR-1998; 98US-0081838P.
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PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
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PR 07-OCT-1998; 98US-00168978.

Query Match 98.7%; Score 1101; DB 6; Length 382;

Best Local Similarity 96.3%; Pred. No. 5.2e-103;

Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

Qy 1 ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI 52

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Db 82 ESEDEQXLIKFIENLLPSDGDFWIGLRRREEKQSNSTACQDLYAWTDGSSISQPRNWIYVD 141
Qy 113 EPSCGSEVCVMYHQPSAPAGIGGPFYMFQWDDRCNMKNFNICKYSDEKPAVPSREABGE 172
Db 142 EPSCGSEVCVMYHQPSAPAGIGGPFYMFQWDDRCNMKNFNICKYSDEKPAVPSREABGE 201
Qy 173 ETELTTPVLPEETQEEDAKKTFKESREAAALNLAY 206
Db 202 ETELTTPVLPEETQEEDAKKTFKESREAAALNLAY 235
RESULT 17
ABR66146
ID ABR66146 standard; protein; 382 AA.
XX
AC ABR66146;
XX
DT 05-AUG-2003 (first entry)
XX
DE Human secreted polypeptide PRO234, SEQ ID NO:20.
XX
KW Human; PRO; secreted protein; transmembrane protein;
KW extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
KW chondrocyte; proliferation; differentiation; cartilage disorder;
KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
KW liver; drug screening; transgenic animal; genetic analysis;
KW antiarthritic; vulnerary; gene therapy.
XX
OS Homo sapiens.
XX
FN US2003027278-A1.
XX
PD 06-FEB-2003.
XX
PF 21-JUN-2002; 2002US-00176987.
XX
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
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PD 13-FEB-2003.
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AK I/DUN-1338; 3803-00030335

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RESULT 22
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ID ABU71468 standard; protein; 382 AA.
XX
AC ABU71468;
XX
DT 10-JUN-2003 (first entry)
XX
DE Human PRO polypeptide #24.
XX
KW Human; secreted and transmembrane protein; PRO polypeptide; cancer;
KW Alzheimer's disease; ischaemia; cytostatic; nootropic; vasotropic;
KW neuroprotective.
XX
OS Homo sapiens.
XX
PN US2002192659-A1.
XX
PD 19-DEC-2002.
XX
PF 10-JUL-2001; 2001US-00902853.
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PR 14-SEP-1998; 98WO-US019177.
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PR 17-SEP-1998; 98WO-US019437.
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PR 08-SEP-1999; 99WO-US020594.
PR 13-SEP-1999; 99WO-US020944.
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PR 15-SEP-1999; 99WO-US021547.
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PR 20-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
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PR 22-MAY-2000; 2000WO-US014042.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 24-AUG-2000; 2000WO-US023328.
PR 18-SEP-2000; 2000US-00665350.
XX
PA (GETH) GENENTECH INC.

XX Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
PI Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;

PI Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IJ;
PI Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
PI Williams PM, Wood WI;
XX WPI; 2003-361832/34.
DR N-PSDB; ACA58405.
XX
PT New isolated nucleic acid encoding a PRO polypeptide, e.g. PRO245 or
PT PRO1868, useful in molecular biology, chromosome and gene mapping, in
PT generating antisense RNA and DNA, and in gene therapy.
XX
PS Claim 12; Fig 50; 474pp; English.
XX
CC The present invention relates to the isolation of novel human secreted
CC and transmembrane proteins (PRO polypeptides), and the polynucleotide
CC sequences encoding them. The polynucleotide sequences are useful in
CC molecular biology, as hybridisation probes, in chromosome and gene
CC mapping, in generating antisense RNA and DNA, and in gene therapy. The
CC polynucleotide sequences may also be used in preparing PRO polypeptides
CC by recombinant techniques, and in generating either transgenic animals or
CC knock-out animals which, in turn, are useful in the development and
CC screening of therapeutically useful reagents. The PRO polypeptides or
CC their antibodies are useful in preparing a medicament for treating a
CC condition responsive to the polypeptide or antibody, such as cancer,
CC Alzheimer's disease or ischaemia, and in various diagnostic assays.
CC ABU71445-ABU71505 represent human PRO polypeptides of the invention
XX
SQ Sequence 382 AA;

Query Match 98.7%; Score 1101; DB 6; Length 382;
Best Local Similarity 96.3%; Pred. No. 5.2e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
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RESULT 23

ABR68085
ID ABR68085 standard; protein; 382 AA.

XX ABR68085;

XX 11-AUG-2003 (first entry)

DT Human secreted polypeptide PRO234, SEQ ID NO:20.

DE Human; PRO; secreted protein; transmembrane protein;
KW extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
KW chondrocyte; proliferation; differentiation; cartilage disorder;
KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
KW liver; drug screening; transgenic animal; genetic analysis;
KW antiarthritic; vulnery; gene therapy.

XX Homo sapiens.

OS US2003027264-A1.

XX 06-FEB-2003.

XX	18-JUN-2002;	2002US-00174579.	PR	05-JUN-1998;	98US-0088217P.
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PR	15-APR-1998;	98US-0081838P.	PR	26-JUN-1998;	98US-0090862P.
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Best Local Similarity 96.3%; Pred. No. 5.2e-103;		
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;		
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QY	53	ESEDEQKLEKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWIYVD 112
Db	82	ESEDEQKLEKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWIYVD 141
QY	113	EPSCGSEVCVMYHQPSAPAGIGGPFMFQWNNDRRCNMKNFICKYSDEKPAVPSREAEGE 172
Db	142	EPSCGSEVCVMYHQPSAPAGIGGPFMFQWNNDRRCNMKNFICKYSDEKPAVPSREAEGE 201
QY	173	ETELTTPVLPEETQEEDAKKTFKESREAALNLAY 206
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DT	25-JUL-2003 (first entry)	
XX		
DE	Novel human secreted and transmembrane protein PRO234.	
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KW	Human; secreted and transmembrane protein; PRO; transgenic animal;	
KW	knockout; chromosome identification; tissue typing; tumour;	
KW	chondrocyte proliferation; chondrocyte differentiation;	
KW	tumor necrosis factor-alpha release stimulator.	
XX		
OS	Homo sapiens.	
XX		
PN	US2003036144-A1.	

XX	20-FEB-2003.	
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PF	01-JUL-2002;	2002US-00187601.
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PR 09-SEP-1998; 98US-0099602P.
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Query Match 98.7%; Score 1101; DB 6; Length 382;
 Best Local Similarity 96.3%; Pred. No. 5.2e-103;
 Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

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 Db 22 ATGRLLSASDLRLGGQPCVCGGTQPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI 81
 Qy 53 ESEDEQKLI EKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSI SQFRNWWYVD 112
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 Db 82 ESEDEQKLI EKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSI SQFRNWWYVD 141
 Qy 113 EPSCGSEVCVVMYHQPSAPAGIGGPFYMFQWDDRCNMKNNFICKYSDEKPAVPSREAEGE 172
 |||||
 Db 142 EPSCGSEVCVVMYHQPSAPAGIGGPFYMFQWDDRCNMKNNFICKYSDEKPAVPSREAEGE 201
 Qy 173 ETELTPVLPEETQEEDAKKTFKESREAAALNLAY 206
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 Db 202 ETELTPVLPEETQEEDAKKTFKESREAAALNLAY 235

RESULT 25
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 ID ABU92569 standard; protein; 382 AA.
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 AC ABU92569;
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 DT 18-JUL-2003 (first entry)
 XX Human secreted/transmembrane protein (PRO) #10.
 DE Human; secreted protein; transmembrane protein; PRO; tumour;
 XX proliferation; differentiation; chondrocyte cell; TNF-alpha;
 KW tumour necrosis factor-alpha; gene therapy.
 KW

XX OS Homo sapiens.
XX PN US2003036149-A1.
XX PD 20-FEB-2003.
XX PF 02-JUL-2002; 2002US-00187746.
XX PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
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PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
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PR 05-MAY-1998; 98US-0084366P.
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PR 07-MAY-1998; 98US-0084639P.
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Query Match 98.7%; Score 1101; DB 6; Length 382;
Best Local Similarity 96.3%; Pred. No. 5.2e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

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QY 53 ESEDEQKLIIEFIENLLPSDGDFFWIGLRRREEKQSNSTACQDLYAWTDGSI SQFRNWWYD 112
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QY 113 EPSCGSEVCVVMYHQPAPAGIGGPFYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGE 172
Db |||||||
142 EPSCGSEVCVVMYHQPAPAGIGGPFYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGE 201

QY 173 ETELTTPVLPEETQEEDAKKTFKESREAAALNLAY 206
Db |||||||
202 ETELTTPVLPEETQEEDAKKTFKESREAAALNLAY 235

RESULT 27
ABO02698
ID ABO02698 standard; protein; 382 AA.

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XX		PR	22-MAY-1998;	98US-0086392P.
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KW	tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;	PR	04-JUN-1998;	98US-0088028P.
XX	prostate tumour; rectal tumour; cervical tumour; liver tumour.	PR	04-JUN-1998;	98US-0088029P.
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Query Match 98.7%; Score 1101; DB 6; Length 382;
Best Local Similarity 96.3%; Pred. No. 5.2e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

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Qy 53 ESEDEQKLEKPIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 112
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Qy 113 EPSCGSEVCVMYHQPSAPAGIGGPFMFQWDDRCNMKNPFICKYSDEKPAVPSREAEGE 172
Db |||||||
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Qy 173 ETELTPVLPEETQEEDAKKTFKESREAAALNLAY 206
Db |||||||
202 ETELTPVLPEETQEEDAKKTFKESREAAALNLAY 235

RESULT 28
ABR74852
ID ABR74852 standard; protein; 382 AA.
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AC ABR74852;
XX
DT 10-SEP-2003 (first entry)
XX
DE Human secreted polypeptide PRO234, SEQ ID NO:20.
XX
KW Human; PRO; secreted protein; transmembrane protein; TNF-alpha; extracellular domain; tumour necrosis factor-alpha; cartilage disorder; chondrocyte; proliferation; differentiation; cancer; tumour; diagnosis; bone disorder; arthritis; sports injury; cancer; kidney; rectum; cervix; adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix; liver; drug screening; transgenic animal; genetic analysis; antiarthritic; vulneryary; gene therapy.
XX
OS Homo sapiens.
XX
PN US2003040056-A1.
XX
PD 27-FEB-2003.
XX
PF 21-JUN-2002; 2002US-00176916.
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Query Match

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Conservative

Mismatches

Indels

Gaps

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172

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KW cytostatic.
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PR 02-MAR-2000; 2000WO-US005841.
PR 15-MAR-2000; 2000WO-US006884.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 22-AUG-2000; 2000US-00644848.
PR 24-AUG-2000; 2000WO-US023328.

PR 18-SEP-2000; 2000US-00664610.
PR 18-SEP-2000; 2000US-00665350.
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PR 08-NOV-2000; 2000WO-US030952.
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PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
PR 22-MAR-2001; 2001US-00816744.
PR 10-MAY-2001; 2001US-00854280.
PR 10-MAY-2001; 2001US-00866028.
PR 25-MAY-2001; 2001US-00866028.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 30-JUL-2001; 2001US-00918585.
PR 06-AUG-2001; 2001US-00924419.
PR 13-AUG-2001; 2001US-00929404.
PR 16-AUG-2001; 2001US-00931836.
PR 28-AUG-2001; 2001US-00941992.
PR 29-AUG-2001; 2001WO-US027099.
PR 04-SEP-2001; 2001US-00946374.
PR 15-JAN-2002; 2002US-00052586.
XX
PA (GETH) GENENTECH INC.

Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;

WPI; 2003-332028/31.
N-PSDB; ACA72780.

Three hundred and five nucleic acids encoding PRO polypeptides, useful
for the manufacture of a medicament for diagnosing or treating tumor.

Claim 11; Fig 20; 707pp; English.

The invention relates to human PRO polypeptides (secreted and
transmembrane polypeptides) and the PRO polynucleotides encoding them.
The invention also relates to a method for stimulating the release of
tumour necrosis factor alpha (TNF-alpha) from human blood by contacting
the blood with a sequence of the invention, a method for stimulating the
proliferation or differentiation of chondrocyte cells by contacting the
cells with a PRO polypeptide and a method for detecting the presence of a
tumour in a mammal. The polypeptides and polynucleotides are useful for
the manufacture of a medicament for diagnosing or treating a tumour in a
mammal. Sequences ABU85578-ABU85882 represent human PRO polypeptides of
the invention. Note: The sequence data for this patent is also available
in electronic format from USPTO at seqdata.uspto.gov/sequence.html

Sequence 382 AA;

Query Match 98.7%; Score 1101; DB 6; Length 382;
Best Local Similarity 96.3%; Pred. No. 5.2e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRRLNPEEAKACRRDGGQLVSI 52
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QY 113 EPSCGSEVCVMYHQPAPAGIGGPPYMFQWDDRCNMKNFNICKYSDEKPAVPSREAEGE 172
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QY 173 ETELTPVLPEETQEDAKKTFKESREALNLAY 206
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Db 202 ETELTPVLPEETQEDAKKTFKESREALNLAY 235

RESULT 31
ABU98747
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XX AC ABU98747;
XX DT 01-AUG-2003 (first entry)
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XX KW Human; secreted and transmembrane protein; PRO; cytostatic; gene therapy;
KW chondrocyte stimulator; tumour; adrenal tumour; lung tumour;
KW colon tumour; breast tumour; prostate tumour; rectal tumour;
KW cervical tumour; liver tumour; TNF-alpha release;
KW tumour necrosis factor alpha release; chondrocyte cell proliferation;
KW chondrocyte cell differentiation; pharmaceutical; diagnostic; biosensor;
KW bioreactor.
XX OS Homo sapiens.
XX PN US2003013153-A1.
XX PD 16-JAN-2003.
XX PF 19-JUN-2002; 2002US-00175737.
XX PR 18-SEP-1997; 97US-0059263P.
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PR 16-SEP-1998; 98WO-US019330.
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Query Match 98.7%; Score 1101; DB 6; Length 382;
Best Local Similarity 96.3%; Pred. No. 5.2e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

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Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;						
QY	1	ATGRLLS-----GQVCRGGTQPCVKVIYFHDTSRRRLNPFEEAKEACRRDGGQLVSI	52			
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PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
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PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087088P.
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PR 04-JUN-1998; 98US-0088033P.
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PR 05-JUN-1998; 98US-0088217P.
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Query Match 98.7%; Score 1101; DB 6; Length 382;
Best Local Similarity 96.3%; Pred. No. 5.2e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQVCRGSGTQPCYKVIYFHDTSRRLNFEEAKEACRDRGGQLVSI 52
Db 22 ATGRLLSASDLRLGGQPVCRGSGTQPCYKVIYFHDTSRRLNFEEAKEACRDRGGQLVSI 81
QY 53 ESEDEQKLIKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVD 112
Db 82 ESEDEQKLIKFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVD 141
QY 113 EPSCGSEVCVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFNICKYSDEKPAVPSREAEGE 172
Db 142 EPSCGSEVCVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFNICKYSDEKPAVPSREAEGE 201
QY 173 ETELTPVLPEETQEEDAKKTFKESREAAALNLAY 206
Db 202 ETELTPVLPEETQEEDAKKTFKESREAAALNLAY 235

RESULT 34
ABU71914
ID ABU71914 standard; protein; 382 AA.
XX
AC ABU71914;
XX
DT 12-JUN-2003 (first entry)
XX
DE Human secreted/transmembrane protein PRO234.
XX
KW Human; secreted protein; transmembrane protein; PRO; gene therapy;
KW chromosome identification; chromosome marker.
XX
OS Homo sapiens.
XX
PN US2003003530-A1.
XX
PD 02-JAN-2003.
XX
PF 11-JUL-2001; 2001US-00904011.
XX
PR 17-SEP-1997; 97US-0059113P.
PR 17-SEP-1997; 97US-0059115P.
PR 17-SEP-1997; 97US-0059117P.
PR 17-SEP-1997; 97US-0059119P.
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PR 27-OCT-1997; 97US-0063329P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063542P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063549P.
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PR 29-OCT-1997; 97US-0063435P.
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PR 29-OCT-1997; 97US-0063732P.
PR 29-OCT-1997; 97US-0063734P.
PR 29-OCT-1997; 97US-0063735P.
PR 29-OCT-1997; 97US-0063738P.

PR 29-OCT-1997; 97US-0064215P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 03-NOV-1997; 97US-0064248P.
PR 07-NOV-1997; 97US-0064809P.
PR 12-NOV-1997; 97US-0065186P.
PR 17-NOV-1997; 97US-0065846P.
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PR 14-SEP-1998; 98WO-US019177.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 01-DEC-1998; 98WO-US025108.
PR 08-SEP-1999; 99WO-US020594.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 05-OCT-1999; 99WO-US023089.
PR 29-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 02-DEC-1999; 99WO-US028564.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
PR 05-JAN-2000; 2000WO-US000219.
PR 11-FEB-2000; 2000WO-US003565.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 22-MAY-2000; 2000WO-US014042.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 24-AUG-2000; 2000WO-US023328.
PR 18-SEP-2000; 2000US-00665350.

(GETH) GENENTECH INC.

Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
Filvaroff E, Fong S, Gerber H, Gerritsen ME, Goddard A;
Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IJ;
Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
Williams PM, Wood WI;

WPI; 2003-329602/31.
N-PSDB; ACA60112.

New transmembrane polypeptides and nucleic acids encoding the
polypeptides, useful in gene therapy, in chromosome identification, as
chromosome markers, in generating probes and in tissue typing.

Claim 12; Fig 50; 484pp; English.

The invention relates to an isolated nucleic acid with at least 80%
nucleic acid sequence identity to a nucleotide sequence encoding one of
61 secreted/transmembrane polypeptides, or PRO polypeptides or encoding a
PRO protein extracellular domain. Also included are a vector comprising
the PRO nucleic acid, a host cell comprising the vector, producing a PRO
polypeptide (by culturing the host cell for the expression of the PRO
polypeptide, and recovering the PRO polypeptide from the cell culture),
an isolated PRO polypeptide (having at least 80% sequence identity to:
a) an amino acid sequence selected from the 61 PRO proteins; (b) an amino
acid sequence encoded by a nucleic acid molecule deposited with an ATCC

CC number (detailed in the specification); or (c) an extracellular domain of
CC a PRO polypeptide or to a PRO polypeptide lacking its associated signal
CC peptide), a chimeric molecule comprising a PRO polypeptide of fused to a
CC heterologous amino acid sequence, an anti-PRO antibody, detecting a
CC PRO245 or PRO1868 in a sample suspected of containing the polypeptide,
CC linking a bioactive molecule to a cell expressing a PRO245 or PRO1868 and
CC modulating at least one biological activity of a cell expressing a PRO245
CC or PRO1868. Nucleic acids which encode PRO can be used to generate either
CC transgenic animals or knock-out animals which may be used in the
CC development and screening of therapeutically useful reagents. The nucleic
CC acids may also be used in gene therapy, in chromosome identification, as
CC chromosome markers, or in generating probes. The PRO polypeptides are
CC useful as molecular markers for protein electrophoresis, and the isolated
CC nucleic acids may be used for recombinantly expressing those markers. The
CC PRO polypeptides and nucleic acids may also be used in tissue typing.
CC Anti-PRO antibodies are useful in diagnostic assays for PRO, and in
CC affinity purification of PRO from recombinant cell culture or natural
CC sources. The present sequence represents a PRO protein
XX
SQ Sequence 382 AA;

Query Match 98.7%; Score 1101; DB 6; Length 382;
Best Local Similarity 96.3%; Pred. No. 5.2e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRLNFEEAKEACRRDGGGLVSI 52
Db 22 ATGRLLSASDLDLRGGQPCVCRGGTQPCYKVIYFHDTSRLNFEEAKEACRRDGGGLVSI 81
QY 53 ESEDEQKLEKFIENLLPSDGDGFWIGLRRREEKQSNSTACQDLYAWTDGSI SQFRNWYVD 112
Db 82 ESEDEQKLEKFIENLLPSDGDGFWIGLRRREEKQSNSTACQDLYAWTDGSI SQFRNWYVD 141
QY 113 EPSCGSEVCVMYHQPSAPAGIGGPFYMFQWDDRCNMKNFICKYSDEKPAVPSREAGE 172
Db 142 EPSCGSEVCVMYHQPSAPAGIGGPFYMFQWDDRCNMKNFICKYSDEKPAVPSREAGE 201
QY 173 ETELTTPVLPEETQEEDAKKTFKESREAAALNLAY 206
Db 202 ETELTTPVLPEETQEEDAKKTFKESREAAALNLAY 235

RESULT 35
ABU89361
ID ABU89361 standard; protein; 382 AA.

XX AC ABU89361;
XX DT 09-JUL-2003 (first entry)
XX DE Human PRO polypeptide #10.
XX KW Human; PRO polypeptide; secreted protein; transmembrane protein;
KW chromosome mapping; gene mapping; tumour; adrenal; lung; colon; breast;
KW prostate; rectal; cervical; liver; cancer; TNF-alpha;
KW tumour necrosis factor-alpha; proliferation; differentiation;
KW chondrocyte cell; bone disorder; cartilage disorder; sports injury;
KW arthritis; cytostatic; antiarthritic; osteopathic.

XX OS Homo sapiens.

XX PN US2003036141-A1.

XX PD 20-FEB-2003.

XX PF 01-JUL-2002; 2002US-00187597.

XX PR 18-SEP-1997; 97US-0059263P.

XX PR 18-SEP-1997; 97US-0059266P.

XX PR 17-OCT-1997; 97US-0062250P.

XX PR 21-OCT-1997; 97US-0063486P.

XX PR 24-OCT-1997; 97US-0063120P.

XX PR 24-OCT-1997; 97US-0063121P.

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PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
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PR	24-JUN-1998;	98US-0090461P.
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PR	24-JUN-1998;	98US-0090540P.
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PR	25-JUN-1998;	98US-0090678P.
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PR	25-JUN-1998;	98US-0090690P.
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PR	26-JUN-1998;	98US-0091010P.
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PR	10-AUG-1998;	98US-0096012P.
PR	17-AUG-1998;	98US-0096757P.
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PR	17-AUG-1998;	98US-0096897P.
PR	18-AUG-1998;	98US-0096949P.
PR	18-AUG-1998;	98US-0096959P.
PR	18-AUG-1998;	98US-0097022P.
PR	26-AUG-1998;	98US-0097952P.
PR	26-AUG-1998;	98US-0097954P.
PR	26-AUG-1998;	98US-0097955P.
PR	26-AUG-1998;	98US-0097971P.
PR	26-AUG-1998;	98US-0097974P.
PR	01-SEP-1998;	98US-0098014P.
PR	01-SEP-1998;	98US-0098716P.
PR	01-SEP-1998;	98US-0098723P.
PR	02-SEP-1998;	98US-0098803P.
PR	02-SEP-1998;	98US-0098821P.
PR	02-SEP-1998;	98US-0098843P.
PR	09-SEP-1998;	98US-0099602P.
PR	10-SEP-1998;	98US-0099741P.
PR	10-SEP-1998;	98US-0099754P.
PR	10-SEP-1998;	98US-0099763P.
PR	10-SEP-1998;	98US-0099812P.
PR	15-SEP-1998;	98US-0100388P.
PR	16-SEP-1998;	98US-0100662P.
PR	16-SEP-1998;	98US-0100664P.
PR	16-SEP-1998;	98US-0101751P.
PR	16-SEP-1998;	98WO-US019330.
PR	17-SEP-1998;	98US-0100683P.
PR	17-SEP-1998;	98US-0100684P.
PR	17-SEP-1998;	98US-0100919P.
PR	17-SEP-1998;	98US-0100930P.
PR	18-SEP-1998;	98US-0100849P.
PR	18-SEP-1998;	98US-0101014P.
PR	18-SEP-1998;	98US-0101068P.
PR	23-SEP-1998;	98US-0101471P.
PR	23-SEP-1998;	98US-0101472P.
PR	23-SEP-1998;	98US-0101475P.
PR	23-SEP-1998;	98US-0101477P.
PR	24-SEP-1998;	98US-0101738P.
PR	24-SEP-1998;	98US-0101739P.
PR	24-SEP-1998;	98US-0101743P.
PR	24-SEP-1998;	98US-0101922P.
PR	25-SEP-1998;	98US-0101786P.
PR	29-SEP-1998;	98US-0102207P.
PR	29-SEP-1998;	98US-0102240P.
PR	29-SEP-1998;	98US-0102330P.
PR	29-SEP-1998;	98US-0102331P.
PR	30-SEP-1998;	98US-0102487P.
PR	30-SEP-1998;	98US-0102570P.
PR	30-SEP-1998;	98US-0102571P.
PR	01-OCT-1998;	98US-0102684P.
PR	01-OCT-1998;	98US-0102687P.
PR	02-OCT-1998;	98US-0102965P.
Query Match 98.7%; Score 1101; DB 6; Length 382;		
Best Local Similarity 96.3%; Pred. No. 5.2e-103;		
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;		
QY	1	ATGRLLS-----GQVCRGGTQRPCYKVIYFHDTSRRLLNFEEAKEACRRDGGQLVSI 52
Db	22	ATGRLLSASDLDRGGQPVCRGGTQRPCYKVIYFHDTSRRLLNFEEAKEACRRDGGQLVSI 81
QY	53	ESEDEQKLI EKFIENLLPSDGFWIGLRRRREEKQSNSTACQDLYAWTDGSIQFRNYYVD 112
Db	82	ESEDEQKLI EKFIENLLPSDGFWIGLRRRREEKQSNSTACQDLYAWTDGSIQFRNYYVD 141
QY	113	EPSCGSEVCVMYHQPSAPAGIGGPPYMFQWNDRCNMKNNFICKYSDEKPAVPSREAEGE 172
Db	142	EPSCGSEVCVMYHQPSAPAGIGGPPYMFQWNDRCNMKNNFICKYSDEKPAVPSREAEGE 201
QY	173	ETELTTPVLPEETOEDAKKTFKESREAAALNLAY 206
Db	202	ETELTTPVLPEETOEDAKKTFKESREAAALNLAY 235
RESULT 36		
ABU86202		
ID	ABU86202 standard; protein; 382 AA.	
XX		
AC	ABU86202;	
XX		
DT	01-JUL-2003 (first entry)	
XX		
DE	Human secreted/transmembrane protein (PRO) #10.	
XX		
KW	Human; immunogen; secreted protein; transmembrane protein; PRO; tumour;	
KW	proliferation; differentiation; chondrocyte cells;	
KW	tumour necrosis factor-alpha; TNF-alpha; blood; gene therapy.	
OS	Homo sapiens.	
XX		
PN	US2003036146-A1.	
XX		
PD	20-FEB-2003.	
XX		
PF	02-JUL-2002; 2002US-00187603.	
XX		
PR	26-JUN-1998;	98US-00105413.
PR	16-SEP-1998;	98WO-US019330.
PR	07-OCT-1998;	98US-00168978.
PR	07-OCT-1998;	98WO-US021141.

PN US2003036137-A1.
XX
PD 20-FEB-2003.
XX
PF
XX 27-JUN-2002; 2002US-00184640.
PR 26-JUN-1998; 98US-00105413.
PR 16-SEP-1998; 98WO-US019330.
PR 07-OCT-1998; 98US-00168978.
PR 07-OCT-1998; 98WO-US021141.
PR 06-NOV-1998; 98US-00187368.
PR 01-DEC-1998; 98WO-US025108.
PR 07-DEC-1998; 98US-00202054.
PR 03-MAR-1999; 99US-00254311.
PR 08-MAR-1999; 99WO-US005028.
PR 14-MAY-1999; 99US-00311832.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 25-AUG-1999; 99US-00380137.
PR 25-AUG-1999; 99US-00380138.
PR 25-AUG-1999; 99US-00380139.
PR 25-AUG-1999; 99US-00380142.
PR 01-SEP-1999; 99WO-US020111.
PR 15-SEP-1999; 99WO-US021090.
PR 18-OCT-1999; 99US-00403297.
PR 12-NOV-1999; 99US-00423844.
PR 01-DEC-1999; 99WO-US028301.
PR 02-DEC-1999; 99WO-US028551.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005841.
PR 15-MAR-2000; 2000WO-US006884.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 22-AUG-2000; 2000US-00644848.
PR 24-AUG-2000; 2000WO-US023328.
PR 18-SEP-2000; 2000US-00664610.
PR 18-SEP-2000; 2000US-00665350.
PR 08-NOV-2000; 2000US-00709238.
PR 08-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 28-FEB-2001; 2001WO-US006520.
PR 22-MAR-2001; 2001US-00816744.
PR 10-MAY-2001; 2001US-00854208.
PR 25-MAY-2001; 2001US-00866028.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 30-JUL-2001; 2001US-00918585.
PR 06-AUG-2001; 2001US-00924419.
PR 13-AUG-2001; 2001US-00929404.
PR 16-AUG-2001; 2001US-00931836.
PR 28-AUG-2001; 2001US-00941992.
PR 29-AUG-2001; 2001WO-US027099.
PR 04-SEP-2001; 2001US-00946374.
PR 15-JAN-2002; 2002US-00052586.
PA (GETH) GENENTECH INC.

XX Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX
DR WPI; 2003-342038/32.
DR N-PSDB; ACA66543.
XX
PT Three hundred and five nucleic acids encoding secreted and transmembrane
PT PRO polypeptides, useful for the diagnosis, prevention and/or treatment
PT of tumors, such as adrenal, lung, colon, breast, prostate, rectal,
PT cervical or liver tumors.
XX
PS Claim 11; Fig 20; 708pp; English.
XX
CC The invention relates to three hundred and five nucleic acids encoding
CC PRO polypeptides (secreted and transmembrane). Methods and compositions
CC of the present invention are useful for the diagnosis, prevention and/or
CC treatment of tumors, such as adrenal, lung, colon, breast, prostate,
CC rectal, cervical or liver tumours. The PRO polypeptides are also useful
CC as molecular weight markers, or for chromosome identification. The PRO
CC genes are useful as hybridisation probes, or for screening libraries of
CC human cDNA, genomic DNA or mRNA. The PRO genes may also be used in gene
CC therapy, particularly for replacing a defective gene. The present
CC sequence represents a human PRO polypeptide of the invention
XX
SQ Sequence 382 AA;

Query Match 98.7%; Score 1101; DB 6; Length 382;
Best Local Similarity 96.3%; Pred. No. 5.2e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQPVCRGGTQRPCKVIYFHDTSRRLLNFEEAKEACRRDGGQLVSI 52
Db |||||
22 ATGRLLSASDLDLRGGQPVCRGGTQRPCKVIYFHDTSRRLLNFEEAKEACRRDGGQLVSI 81
QY 53 ESEDEQKLEKFIENLLPSDGFWIGLRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 112
Db |||||
82 ESEDEQKLEKFIENLLPSDGFWIGLRREEKQSNSTACQDLYAWTDGSIQFRNWWYVD 141
QY 113 EPSCGSEVCVVMYHQPAPAGIGGPFYFQWDDRCNMKNFNICKYSDEKPAVPSREAEGE 172
Db |||||
142 EPSCGSEVCVVMYHQPAPAGIGGPFYFQWDDRCNMKNFNICKYSDEKPAVPSREAEGE 201
QY 173 ETELTTPVLPETQEDAKKTFKESREAAALNLAY 206
Db |||||
202 ETELTTPVLPETQEDAKKTFKESREAAALNLAY 235

RESULT 39

ABO01797
ID ABO01797 standard; protein; 382 AA.
XX
AC ABO01797;
XX
DT 07-AUG-2003 (first entry)
XX
DE Novel human secreted and transmembrane protein PRO234.
XX
KW Human; secreted and transmembrane protein; PRO; pharmaceutical;
KW diagnostic; biosensor; bioreactor; Parkinson's disease;
KW Alzheimer's disease; inflammation; nephritis; wound healing;
KW nerve repair; collateral blood vessel formation; cancer;
KW colorectal cancer; haemorrhage; rheumatoid arthritis; diabetes;
KW cirrhosis; fibrosis; restenosis; dermal fibrotic condition; keloid;
KW scarring; ischaemia; stroke; hypertension; heart attack; atherosclerosis;
KW infertility; gene therapy.
XX
OS Homo sapiens.
XX
PN US2002197671-A1.
XX
PD 26-DEC-2002.
XX

RESULT 40	
ABR99361	
ID	ABR99361 standard; protein; 382 AA.
XX	
AC	ABR99361;
XX	
DT	18-SEP-2003 (first entry)
XX	
DE	Human secreted polypeptide PRO234, SEQ ID NO:20.
XX	
KW	KW Human; PRO; secreted protein; transmembrane protein;
KW	extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
KW	chondrocyte; proliferation; differentiation; cartilage disorder;
KW	bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
KW	adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
KW	liver; drug screening; transgenic animal; genetic analysis;
KW	antiarthritic; vulnerary; gene therapy.
XX	
OS	Homo sapiens.
XX	
PN	US2003040063-A1.
XX	
PD	27-FEB-2003.
XX	
PF	26-JUN-2002; 2002US-00183006.
XX	
PR	18-SEP-1997; 97US-0059263P.
PR	18-SEP-1997; 97US-0059266P.
PR	17-OCT-1997; 97US-0062250P.
PR	21-OCT-1997; 97US-0063486P.
PR	24-OCT-1997; 97US-0063120P.
PR	24-OCT-1997; 97US-0063121P.
PR	28-OCT-1997; 97US-0063540P.
PR	28-OCT-1997; 97US-0063541P.
PR	28-OCT-1997; 97US-0063544P.
PR	28-OCT-1997; 97US-0063564P.
PR	29-OCT-1997; 97US-0063734P.
PR	31-OCT-1997; 97US-0063870P.
PR	31-OCT-1997; 97US-0064103P.
PR	13-NOV-1997; 97US-0065311P.
PR	21-NOV-1997; 97US-0066120P.
PR	24-NOV-1997; 97US-0066466P.
PR	24-NOV-1997; 97US-0066772P.
PR	11-DEC-1997; 97US-0069335P.
PR	12-DEC-1997; 97US-0069425P.
PR	17-DEC-1997; 97US-0069870P.
PR	18-DEC-1997; 97US-0068017P.
PR	10-MAR-1998; 98US-0077450P.
PR	11-MAR-1998; 98US-0077632P.
PR	11-MAR-1998; 98US-0077649P.
PR	20-MAR-1998; 98US-0078886P.
PR	20-MAR-1998; 98US-0078939P.
PR	27-MAR-1998; 98US-0079664P.
PR	27-MAR-1998; 98US-0079786P.
PR	31-MAR-1998; 98US-0080107P.
PR	31-MAR-1998; 98US-0080194P.
PR	01-APR-1998; 98US-0080327P.
PR	01-APR-1998; 98US-0080333P.
PR	08-APR-1998; 98US-0081049P.
PR	08-APR-1998; 98US-0081070P.
PR	09-APR-1998; 98US-0081195P.
PR	15-APR-1998; 98US-0081838P.
PR	21-APR-1998; 98US-0082568P.
PR	21-APR-1998; 98US-0082569P.
PR	22-APR-1998; 98US-0082704P.
PR	22-APR-1998; 98US-0082797P.
PR	28-APR-1998; 98US-0083322P.
PR	29-APR-1998; 98US-0083495P.
PR	29-APR-1998; 98US-0083496P.
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PR	29-APR-1998; 98US-0083559P.
PR	05-MAY-1998; 98US-0084366P.

PR	06-MAY-1998; 98US-0084414P.
PR	07-MAY-1998; 98US-0084639P.
PR	07-MAY-1998; 98US-0084640P.
PR	07-MAY-1998; 98US-0084643P.
PR	15-MAY-1998; 98US-0085579P.
PR	15-MAY-1998; 98US-0085580P.
PR	15-MAY-1998; 98US-0085582P.
PR	15-MAY-1998; 98US-0085700P.
PR	18-MAY-1998; 98US-0086023P.
PR	22-MAY-1998; 98US-0086392P.
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PR	28-MAY-1998; 98US-0087098P.
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PR	02-JUN-1998; 98US-0087609P.
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PR	03-JUN-1998; 98US-0087827P.
PR	04-JUN-1998; 98US-0088025P.
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PR	04-JUN-1998; 98US-0088029P.
PR	04-JUN-1998; 98US-0088033P.
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PR	05-JUN-1998; 98US-0088167P.
PR	05-JUN-1998; 98US-0088202P.
PR	05-JUN-1998; 98US-0088212P.
PR	05-JUN-1998; 98US-0088217P.
PR	09-JUN-1998; 98US-0088655P.
PR	10-JUN-1998; 98US-0088722P.
PR	10-JUN-1998; 98US-0088738P.
PR	10-JUN-1998; 98US-0088740P.
PR	10-JUN-1998; 98US-0088811P.
PR	10-JUN-1998; 98US-0088824P.
PR	10-JUN-1998; 98US-0088825P.
PR	10-JUN-1998; 98US-0088826P.
PR	11-JUN-1998; 98US-0088861P.
PR	11-JUN-1998; 98US-0088863P.
PR	11-JUN-1998; 98US-0088876P.
PR	12-JUN-1998; 98US-0089090P.
PR	12-JUN-1998; 98US-0089105P.
PR	16-JUN-1998; 98US-0089512P.
PR	16-JUN-1998; 98US-0089514P.
PR	17-JUN-1998; 98US-0089538P.
PR	17-JUN-1998; 98US-0089598P.
PR	17-JUN-1998; 98US-0089653P.
PR	18-JUN-1998; 98US-0089908P.
PR	19-JUN-1998; 98US-0089952P.
PR	22-JUN-1998; 98US-0090246P.
PR	22-JUN-1998; 98US-0090252P.
PR	22-JUN-1998; 98US-0090254P.
PR	24-JUN-1998; 98US-0090429P.
PR	24-JUN-1998; 98US-0090435P.
PR	24-JUN-1998; 98US-0090444P.
PR	24-JUN-1998; 98US-0090461P.
PR	24-JUN-1998; 98US-0090535P.
PR	24-JUN-1998; 98US-0090540P.
PR	25-JUN-1998; 98US-0090676P.
PR	25-JUN-1998; 98US-0090678P.
PR	25-JUN-1998; 98US-0090688P.
PR	25-JUN-1998; 98US-0090690P.
PR	25-JUN-1998; 98US-0090694P.
PR	25-JUN-1998; 98US-0090695P.
PR	25-JUN-1998; 98US-0090696P.
PR	26-JUN-1998; 98US-00105413.
PR	26-JUN-1998; 98US-0090862P.
PR	26-JUN-1998; 98US-0090863P.
PR	26-JUN-1998; 98US-0091010P.
PR	01-JUL-1998; 98US-0091359P.
PR	01-JUL-1998; 98US-0091544P.
PR	02-JUL-1998; 98US-0091478P.
PR	02-JUL-1998; 98US-0091486P.
PR	02-JUL-1998; 98US-0091626P.
PR	02-JUL-1998; 98US-0091628P.
PR	02-JUL-1998; 98US-0091632P.
PR	24-JUL-1998; 98US-0094006P.

PR	04-AUG-1998;	98US-0095282P.	PR	QY	173	ETELTTPVLPEETQEEDAKKTFKESREAAALNLAY	206
PR	10-AUG-1998;	98US-0095998P.	PR	Db	202	ETELTTPVLPEETQEEDAKKTFKESREAAALNLAY	235
PR	10-AUG-1998;	98US-0096012P.					
PR	17-AUG-1998;	98US-0096757P.					
PR	17-AUG-1998;	98US-0096766P.					
PR	17-AUG-1998;	98US-0096867P.					
PR	17-AUG-1998;	98US-0096891P.					
PR	17-AUG-1998;	98US-0096897P.					
PR	18-AUG-1998;	98US-0096949P.					
PR	18-AUG-1998;	98US-0096959P.					
PR	18-AUG-1998;	98US-0097022P.					
PR	26-AUG-1998;	98US-0097952P.					
PR	26-AUG-1998;	98US-0097954P.					
PR	26-AUG-1998;	98US-0097955P.					
PR	26-AUG-1998;	98US-0097971P.					
PR	26-AUG-1998;	98US-0097974P.					
PR	26-AUG-1998;	98US-0098014P.					
PR	01-SEP-1998;	98US-00987116P.					
PR	01-SEP-1998;	98US-0098723P.					
PR	02-SEP-1998;	98US-0098803P.					
PR	02-SEP-1998;	98US-0098821P.					
PR	02-SEP-1998;	98US-0098843P.					
PR	09-SEP-1998;	98US-0099602P.					
PR	10-SEP-1998;	98US-0099741P.					
PR	10-SEP-1998;	98US-0099754P.					
PR	10-SEP-1998;	98US-0099763P.					
PR	10-SEP-1998;	98US-0099812P.					
PR	15-SEP-1998;	98US-0100388P.					
PR	16-SEP-1998;	98US-0100662P.					
PR	16-SEP-1998;	98US-0100664P.					
PR	16-SEP-1998;	98US-0101751P.					
PR	16-SEP-1998;	98WO-US019330.					
PR	17-SEP-1998;	98US-0100683P.					
PR	17-SEP-1998;	98US-0100684P.					
PR	17-SEP-1998;	98US-0100919P.					
PR	17-SEP-1998;	98US-0100930P.					
PR	18-SEP-1998;	98US-0100849P.					
PR	18-SEP-1998;	98US-0101014P.					
PR	18-SEP-1998;	98US-0101068P.					
PR	23-SEP-1998;	98US-0101471P.					
PR	23-SEP-1998;	98US-0101472P.					
PR	23-SEP-1998;	98US-0101475P.					
PR	23-SEP-1998;	98US-0101477P.					
PR	24-SEP-1998;	98US-0101738P.					
PR	24-SEP-1998;	98US-0101739P.					
PR	24-SEP-1998;	98US-0101743P.					
PR	24-SEP-1998;	98US-0101922P.					
PR	25-SEP-1998;	98US-0101786P.					
PR	29-SEP-1998;	98US-0102207P.					
PR	29-SEP-1998;	98US-0102240P.					
PR	29-SEP-1998;	98US-0102330P.					
PR	29-SEP-1998;	98US-0102331P.					
PR	30-SEP-1998;	98US-0102487P.					
PR	30-SEP-1998;	98US-0102570P.					
PR	30-SEP-1998;	98US-0102571P.					
PR	01-OCT-1998;	98US-0102684P.					
PR	01-OCT-1998;	98US-0102687P.					
Query Match 98.7%; Score 1101; DB 6; Length 382;							
Best Local Similarity 96.3%; Pred. No. 5.2e-103;							
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;							
QY	1	ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRRLNFEFAKACRRDGGQLVSI	52				
Db	22	ATGRLLSASDLDRGGQVCRGGTQPCYKVIYFHDTSRRLNFEFAKACRRDGGQLVSI	81				
QY	53	ESEDEQKLIKFIENLLPSDGFWIGLRRRREKQSNSTACQDLYAWTDGSIQFRNWIYD	112				
Db	82	ESEDEQKLIKFIENLLPSDGFWIGLRRRREKQSNSTACQDLYAWTDGSIQFRNWIYD	141				
QY	113	EPSCGSEVCVMYHQPSAPAGIGGPFMFQWDDRCNMKNFICKYSEKPAVPSREAEGE	172				
Db	142	EPSCGSEVCVMYHQPSAPAGIGGPFMFQWDDRCNMKNFICKYSEKPAVPSREAEGE	201				

RESULT 41
ABR98751
ID ABR98751 standard; protein; 382 AA.
XX
AC ABR98751;
XX
DT 17-SEP-2003 (first entry)
XX
DE Human secreted polypeptide PRO234, SEQ ID NO:20.
XX
KW Human; PRO; secreted protein; transmembrane protein; extracellular domain; tumour necrosis factor-alpha; TNF-alpha; chondrocyte; proliferation; differentiation; cartilage disorder; bone disorder; arthritis; sports injury; cancer; tumour; diagnosis; adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix; liver; drug screening; transgenic animal; genetic analysis; antiarthritic; vulnery; gene therapy.
OS Homo sapiens.
XX
PN US2003040064-A1.
XX
PD 27-FEB-2003.
XX
PF 26-JUN-2002; 2002US-00183008.
XX
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
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Query Match 98.7%; Score 1101; DB 6; Length 382;
Best Local Similarity 96.3%; Pred. No. 5.2e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

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Db 82 ESEDEQKLEKFIENLLPSDGDWFGLRRREKQSNSTACQDLYAWTDGSGISOFRNWYVD 141
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Db 142 EPSCGSEVCVVMYHQPAPAGIGGPPYMFQWDDRCNKNKNNFICKYSDEKPAVPSREAE 201
Qy 173 ETELTPVLPEETOEEADAKTFKESREAAALNLAY 205
Db 202 ETELTPVLPEETOEEADAKTFKESREAAALNLAY 235

RESULT 42
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AC ABO16274;
XX
DT 25-AUG-2003 (first entry)
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DE Human; secreted and transmembrane protein; PRO; TNF-alpha;
KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
XX
OS Homo sapiens.
XX
PN US2003027267-A1.
PD
XX 06-FEB-2003.
PF
XX 19-JUN-2002; 2002US-00175739.
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Db 142 EPSCGSEVCVMYHQPSAPAGIGGPFMFQWDDRCNMKNFICKYSDEKPAVPSREAEGE 201
QY 173 ETELTPVLPPEETOEDAKKTFKESREAAALNLAY 206
Db 202 ETELTPVLPPEETOEDAKKTFKESREAAALNLAY 235
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ID ABR92174 standard; protein; 382 AA.
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AC ABR92174;
XX
DT 13-SEP-2003 (first entry)
XX
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XX
KW Human; PRO; secreted protein; transmembrane protein;
KW extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
KW chondrocyte; proliferation; differentiation; cartilage disorder;
KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
KW liver; drug screening; transgenic animal; genetic analysis;
KW antiarthritic; vulnery; gene therapy.
XX
OS Homo sapiens.
XX
PN US2003036160-A1.
XX PD
XX 20-FEB-2003.
PF 02-JUL-2002; 2002US-00188781.
XX 18-SEP-1997; 97US-0059263P.
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Best Local Similarity 96.3%; Pred. No. 5.2e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
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PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
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PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
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QY	53	ESDEQKLIKFIENLLPSDGFWIGLRRRREKQSNSTACQDLYAWTDGSIQFRNWWVD 112
Db	82	ESDEQKLIKFIENLLPSDGFWIGLRRRREKQSNSTACQDLYAWTDGSIQFRNWWVD 141
QY	113	EPSCGSEVCVMYHQPSAPAGIGGYPMFQWDDRCNMKNFICKYSDEKPAVPSREAGE 172
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Db	202	ETELTTPVLPEETQEDAKKTFKESREAAALNLAY 235
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ID	ABR78236 standard; protein; 382 AA.	
XX	AC ABR78236;	
XX	DT 19-SEP-2003 (first entry)	
XX	Human secreted polypeptide PRO234, SEQ ID NO:20.	
XX	Human; PRO; secreted protein; transmembrane protein; TNF-alpha; extracellular domain; tumour necrosis factor-alpha; cartilage disorder; chondrocyte; proliferation; differentiation; cancer; tumour; diagnosis; bone disorder; arthritis; sports injury; cancer; kidney; rectum; cervix; adrenal tumour; lung; colon; breast; prostate; genetic analysis; antiarthritic; vulnary; gene therapy.	
OS	Homo sapiens.	
XX	US2003054474-A1.	
PD	20-MAR-2003.	
XX	22-JUL-2002; 2002US-00201530.	
XX	22-JUN-1998; 98US-0090254P.	
PR	02-JUN-1999; 99WO-US012252.	
PR	25-AUG-1999; 99US-00380137.	
PR	28-FEB-2001; 2001WO-US006520.	
PR	15-JAN-2002; 2002US-00052586.	
XX	(GETH) GENENTECH INC.	
XX	Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL; Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;	
XX	WPI; 2003-503631/47.	
DR	N-PSDB; ACF00109.	
XX	New secreted and transmembrane PRO polypeptides and nucleic acids, useful in gene therapy, or for preparing a medicament for treating a condition that is responsive to the PRO polypeptide or anti-PRO antibody.	
PS	Claim 11; Fig 20; 700pp; English.	
XX	The invention relates to human PRO secreted/transmembrane polypeptides	

CC (ABR78227-ABR78531) and nucleic acids encoding them (ACF00100-00404). The
CC invention also relates to sequences at least 80% identical to the PRO
CC nucleic acid and polypeptide sequences of the invention, recombinant
CC vectors and host cells comprising a PRO nucleic acid, a method for the
CC recombinant production of a PRO polypeptide, antibodies against a PRO
CC polypeptide, and fusion proteins comprising a PRO polypeptide. Nucleic
CC acids encoding PRO polypeptides of the invention were initially
CC identified via homology screening using consensus sequences based on the
CC extracellular domain sequences from known secreted proteins. Human cDNA
CC libraries containing sequences of interest were identified using
CC oligonucleotides based on the consensus sequences, and cDNA clones were
CC isolated and characterised. The PRO polypeptides are useful for
CC stimulating release of tumour necrosis factor-alpha (TNF-alpha) from
CC human blood and may thus be used in the treatment of conditions in which
CC enhanced TNF-alpha release would be beneficial. They are also useful for
CC stimulating the proliferation or differentiation of chondrocytes and as
CC such may be used in the treatment of various bone and/or cartilage
CC disorders such as arthritis and sports injuries. The PRO polypeptides may
CC be used in a method for detecting the presence of a tumour (e.g., an
CC adrenal tumour, lung tumour, colon tumour, breast tumour, prostate
CC tumour, rectal tumour, cervical tumour or liver tumour) in a mammal. This
CC method involves comparing the level of expression of the PRO polypeptide
CC in test and control samples, where a higher level of expression of PRO
CC polypeptide in the test sample as compared to the control sample is
CC indicative of the presence of a tumour. The PRO polypeptides are
CC additionally useful for in drug screening to identify agonists and
CC antagonists of PRO polypeptides. PRO nucleic acids are useful as
CC hybridisation probes (for isolation of cDNA molecules), in chromosome and
CC gene mapping, in the generation of antisense RNA and DNA and in gene
CC therapy. The nucleic acids can also be used for mapping genes encoding
CC PRO polypeptides, for genetic analysis of individuals with genetic
CC disorders, and for generating either transgenic animals or knock-out
CC animals which are useful in the development and screening of
CC therapeutically useful compounds. Sequences ABR78227-ABR78531 represent
CC the human PRO secreted/transmembrane polypeptides of the invention. Note:
CC The sequence data for this patent is also available in electronic format
CC from USPTO at seqdata.uspto.gov/sequence.html
XX
SQ Sequence 382 AA;

Query Match 98.7%; Score 1101; DB 6; Length 382;
Best Local Similarity 96.3%; Pred. No. 5.2e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

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Qy 173 ETELTPVLPPEETQEEADAKKTFKESREAALNLAY 206
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RESULT 46
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AC ABU84972;
XX
DT 30-JUN-2003 (first entry)
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DE Novel human secreted and transmembrane protein PRO234.
XX
KW Human; secreted and transmembrane protein; PRO; cytostatic; gene therapy;
chondrocyte stimulator; chromosome mapping; gene mapping;
KW

KW transgenic animal; knock-out animal; tumour.
XX Homo sapiens.
OS
PN US2003032114-A1.
XX
PD 13-FEB-2003.
XX
PF 20-JUN-2002; 2002US-00176919.
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PR 28-OCT-1997; 97US-0063541P.
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PR	25-JUN-1998;	98US-0090678P.	PR	01-OCT-1998;	98US-0102687P.
PR	25-JUN-1998;	98US-0090688P.	PR	02-OCT-1998;	98US-0102965P.
PR	25-JUN-1998;	98US-0090690P.	PR	06-OCT-1998;	98US-0103258P.
PR	25-JUN-1998;	98US-0090694P.	PR	06-OCT-1998;	98US-0103449P.
PR	25-JUN-1998;	98US-0090695P.	PR	07-OCT-1998;	98US-00168978.
PR	25-JUN-1998;	98US-0090696P.	Query Match 98.7%; Score 1101; DB 6; Length 382;		
PR	26-JUN-1998;	98US-00105413.	Best Local Similarity 96.3%; Pred. No. 5.2e-103;		
PR	26-JUN-1998;	98US-0090862P.	Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;		
PR	26-JUN-1998;	98US-0090863P.			
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PR	01-JUL-1998;	98US-0091359P.	Qy	1	ATGRLLS-----GQVCRGGTQRPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI 52
PR	01-JUL-1998;	98US-0091544P.	Db	22	ATGRLLSASDLRLRGQPVCRGGTQRPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI 81
PR	02-JUL-1998;	98US-0091478P.			
PR	02-JUL-1998;	98US-0091486P.			
PR	02-JUL-1998;	98US-0091626P.	Qy	53	ESEDEQKLI EKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSI SQFRNWWYD 112
PR	02-JUL-1998;	98US-0091628P.	Db	82	ESEDEQKLI EKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSI SQFRNWWYD 141
PR	02-JUL-1998;	98US-0091632P.			
PR	24-JUL-1998;	98US-0094006P.			
PR	04-AUG-1998;	98US-0095282P.	Qy	113	EPSCGSEVCVMYHQPAPAGIGGYPYMFQWDDRCNMKNFICKYSEKPAVPSREAEGE 172
PR	10-AUG-1998;	98US-0095998P.	Db	142	EPSCGSEVCVMYHQPAPAGIGGYPYMFQWDDRCNMKNFICKYSEKPAVPSREAEGE 201
PR	10-AUG-1998;	98US-0096012P.			
PR	17-AUG-1998;	98US-0096757P.			
PR	17-AUG-1998;	98US-0096766P.	Qy	173	ETELTTPVLPEETQEDAKKTFKESREAAALNLAY 206
PR	17-AUG-1998;	98US-0096867P.	Db	202	ETELTTPVLPEETQEDAKKTFKESREAAALNLAY 235
PR	17-AUG-1998;	98US-0096891P.			
PR	17-AUG-1998;	98US-0096897P.			
PR	18-AUG-1998;	98US-0096949P.			
PR	18-AUG-1998;	98US-0096959P.			
PR	18-AUG-1998;	98US-0097022P.			
PR	26-AUG-1998;	98US-0097952P.			
PR	26-AUG-1998;	98US-0097954P.			
PR	26-AUG-1998;	98US-0097955P.			
PR	26-AUG-1998;	98US-0097971P.			
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XX					
AC ABO00111;					
XX					
DT 06-AUG-2003 (first entry)					

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XX		PR	03-JUN-1998;	98US-0087827P.
XX		PR	04-JUN-1998;	98US-0088025P.
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KW	chondrocyte stimulation; tumour; tissue typing.	PR	04-JUN-1998;	98US-0088029P.
XX		PR	04-JUN-1998;	98US-0088033P.
OS	Homo sapiens.	PR	04-JUN-1998;	98US-0088326P.
XX		PR	05-JUN-1998;	98US-0088167P.
PN	US2003032101-A1.	PR	05-JUN-1998;	98US-0088202P.
XX		PR	05-JUN-1998;	98US-0088212P.
PD	13-FEB-2003.	PR	05-JUN-1998;	98US-0088217P.
XX		PR	09-JUN-1998;	98US-0088655P.
PF	17-JUN-2002; 2002US-00173695.	PR	10-JUN-1998;	98US-0088722P.
XX		PR	10-JUN-1998;	98US-0088738P.
PR	18-SEP-1997; 97US-0059263P.	PR	10-JUN-1998;	98US-0088740P.
PR	18-SEP-1997; 97US-0059266P.	PR	10-JUN-1998;	98US-0088811P.
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PR	21-OCT-1997; 97US-0063486P.	PR	10-JUN-1998;	98US-0088825P.
PR	24-OCT-1997; 97US-0063120P.	PR	10-JUN-1998;	98US-0088826P.
PR	24-OCT-1997; 97US-0063121P.	PR	10-JUN-1998;	98US-0088861P.
PR	28-OCT-1997; 97US-0063540P.	PR	11-JUN-1998;	98US-0088863P.
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PR	13-NOV-1997; 97US-0065311P.	PR	17-JUN-1998;	98US-0089598P.
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PR	11-DEC-1997; 97US-0069335P.	PR	19-JUN-1998;	98US-0089952P.
PR	12-DEC-1997; 97US-0069425P.	PR	22-JUN-1998;	98US-0090246P.
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PR	10-MAR-1998; 98US-0077450P.	PR	24-JUN-1998;	98US-0090429P.
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PR	11-MAR-1998; 98US-0077649P.	PR	24-JUN-1998;	98US-0090444P.
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PR	20-MAR-1998; 98US-0078939P.	PR	24-JUN-1998;	98US-0090535P.
PR	27-MAR-1998; 98US-0079664P.	PR	24-JUN-1998;	98US-0090540P.
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PR	31-MAR-1998; 98US-0080107P.	PR	25-JUN-1998;	98US-0090678P.
PR	31-MAR-1998; 98US-0080194P.	PR	25-JUN-1998;	98US-0090688P.
PR	01-APR-1998; 98US-0080327P.	PR	25-JUN-1998;	98US-0090690P.
PR	01-APR-1998; 98US-0080333P.	PR	25-JUN-1998;	98US-0090694P.
PR	08-APR-1998; 98US-0081049P.	PR	25-JUN-1998;	98US-0090695P.
PR	08-APR-1998; 98US-0081070P.	PR	25-JUN-1998;	98US-0090696P.
PR	09-APR-1998; 98US-0081195P.	PR	26-JUN-1998;	98US-00105413.
PR	15-APR-1998; 98US-0081838P.	PR	26-JUN-1998;	98US-0090862P.
PR	21-APR-1998; 98US-0082568P.	PR	26-JUN-1998;	98US-0090863P.
PR	21-APR-1998; 98US-0082569P.	PR	26-JUN-1998;	98US-0091010P.
PR	22-APR-1998; 98US-0082704P.	PR	01-JUL-1998;	98US-0091359P.
PR	22-APR-1998; 98US-0082797P.	PR	01-JUL-1998;	98US-0091544P.
PR	28-APR-1998; 98US-0083322P.	PR	02-JUL-1998;	98US-0091478P.
PR	29-APR-1998; 98US-0083496P.	PR	02-JUL-1998;	98US-0091486P.
PR	29-APR-1998; 98US-0083499P.	PR	02-JUL-1998;	98US-0091626P.
PR	29-APR-1998; 98US-0083559P.	PR	02-JUL-1998;	98US-0091628P.
PR	05-MAY-1998; 98US-0084366P.	PR	02-JUL-1998;	98US-0091632P.
PR	06-MAY-1998; 98US-0084414P.	PR	24-JUL-1998;	98US-0094006P.
PR	07-MAY-1998; 98US-0084639P.	PR	04-AUG-1998;	98US-0095282P.
PR	07-MAY-1998; 98US-0084640P.	PR	10-AUG-1998;	98US-0095998P.
PR	07-MAY-1998; 98US-0084643P.	PR	10-AUG-1998;	98US-0096012P.
PR	15-MAY-1998; 98US-0085579P.	PR	17-AUG-1998;	98US-0096757P.
PR	15-MAY-1998; 98US-0085580P.	PR	17-AUG-1998;	98US-0096766P.
PR	15-MAY-1998; 98US-0085582P.	PR	17-AUG-1998;	98US-0096867P.
PR	15-MAY-1998; 98US-0085700P.	PR	17-AUG-1998;	98US-0096891P.
PR	18-MAY-1998; 98US-0086023P.	PR	17-AUG-1998;	98US-0096897P.
PR	22-MAY-1998; 98US-0086392P.	PR	18-AUG-1998;	98US-0096949P.
PR	22-MAY-1998; 98US-0086486P.	PR	18-AUG-1998;	98US-0096959P.
PR	28-MAY-1998; 98US-0087098P.	PR	18-AUG-1998;	98US-0097022P.
PR	28-MAY-1998; 98US-0087208P.	PR	26-AUG-1998;	98US-0097952P.
PR		PR	26-AUG-1998;	98US-0097954P.

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PR	26-AUG-1998;	98US-0098014P.	XX	
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PR	01-SEP-1998;	98US-0098723P.	XX	
PR	02-SEP-1998;	98US-0098803P.	DE	Human secreted/transmembrane protein (PRO) #10.
PR	02-SEP-1998;	98US-0098821P.	XX	
PR	02-SEP-1998;	98US-0098843P.	KW	Human; secreted and transmembrane protein; PRO; TNF-alpha;
PR	09-SEP-1998;	98US-0099602P.	KW	tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
PR	10-SEP-1998;	98US-0099741P.	KW	tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
PR	10-SEP-1998;	98US-0099754P.	KW	prostate tumour; rectal tumour; cervical tumour; liver tumour.
PR	10-SEP-1998;	98US-0099763P.	XX	
PR	10-SEP-1998;	98US-0099812P.	OS	Homo sapiens.
PR	15-SEP-1998;	98US-0100388P.	XX	
PR	16-SEP-1998;	98US-0100662P.	PN	US2003036124-A1.
PR	16-SEP-1998;	98US-0100664P.	XX	
PR	16-SEP-1998;	98US-0101751P.	PD	20-FEB-2003.
PR	16-SEP-1998;	98WO-US019330.	XX	
PR	17-SEP-1998;	98US-0100683P.	PF	26-JUN-2002; 2002US-00180998.
PR	17-SEP-1998;	98US-0100684P.	XX	
PR	17-SEP-1998;	98US-0100919P.	PR	18-SEP-1997; 97US-0059263P.
PR	17-SEP-1998;	98US-0100930P.	PR	18-SEP-1997; 97US-0059266P.
PR	18-SEP-1998;	98US-0100849P.	PR	17-OCT-1997; 97US-0062250P.
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PR	30-SEP-1998;	98US-0102487P.	PR	12-DEC-1997; 97US-0069425P.
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PR	01-OCT-1998;	98US-0102684P.	PR	10-MAR-1998; 98US-0077450P.
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PR	02-OCT-1998;	98US-0102965P.	PR	11-MAR-1998; 98US-0077649P.
PR	06-OCT-1998;	98US-0103258P.	PR	20-MAR-1998; 98US-0078886P.
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			PR	29-APR-1998; 98US-0083499P.
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Best Local Similarity		96.3%;	Pred. No. 5.2e-103;		
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Db	22	ATGRLLSASDLDRGGQPCVCRGGTQPCYKVIYFHDTSRRLLNFEEAKEACRRDGGQLVSI	81		
QY	53	ESEDEQKLIKFIENLLPSDGFWIGLRRRBEKQSNSTACQDLYAWTDGSI SQFRNWWYD	112		
Db	82	ESEDEQKLIKFIENLLPSDGFWIGLRRRBEKQSNSTACQDLYAWTDGSI SQFRNWWYD	141		
QY	113	EPSCGSEVCVMYHQPSAPAGIGGYPYFQWNNDRCKMKNFICKYDEKPAVPSREAEGE	172		
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PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
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PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
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PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
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PR 24-SEP-1998; 98US-0101922P.
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PR 06-OCT-1998; 98US-0103449P.

Query Match 98.7%; Score 1101; DB 6; Length 382;
Best Local Similarity 96.3%; Pred. No. 5.2e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

Qy 1 ATGRLLS-----GQPVCRCGGTQPCYKVIFYHDTSRRLNPEEAKACRRDGGQLVSI 52
Db |||||
22 ATGRLLSASDLDRGGQPVCRCGGTQPCYKVIFYHDTSRRLNPEEAKACRRDGGQLVSI 81
Qy 53 ESEDEQKLTIEFIENLLPSDGDFFWIGLRRREEKQSNSTACQDLYAWTDGSI SQFRNWWYD 112
Db |||||
82 ESEDEQKLTIEFIENLLPSDGDFFWIGLRRREEKQSNSTACQDLYAWTDGSI SQFRNWWYD 141
Qy 113 EPSCGSEVCVMYHQPAPAGIGGPFYMFQWDDRCNMKNFNICKYSDEKPAVPSREAEGE 172
Db |||||
142 EPSCGSEVCVMYHQPAPAGIGGPFYMFQWDDRCNMKNFNICKYSDEKPAVPSREAEGE 201
Qy 173 ETELTPVLPBEETOEDAKKTFKESREAAINLAY 206
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Db 202 ETELTPVLPEETQEDAKTFKESREAAINLAY 235

RESULT 49

ABO02088

ID ABO02088 standard; protein; 382 AA.

XX

AC ABO02088;

XX

DT 09-AUG-2003 (first entry)

XX Human secreted/transmembrane protein (PRO) #10.

DE

XX Human; secreted and transmembrane protein; PRO; TNF-alpha;

KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;

KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;

KW prostate tumour; rectal tumour; cervical tumour; liver tumour.

XX Homo sapiens.

OS

XX US2003040054-A1.

PN

XX 27-FEB-2003.

PD

XX 20-JUN-2002; 2002US-00176479.

PF

XX 18-SEP-1997; 97US-0059263P.

PR 18-SEP-1997; 97US-0059266P.

PR 17-OCT-1997; 97US-0062250P.

PR 21-OCT-1997; 97US-0063486P.

PR 24-OCT-1997; 97US-0063120P.

PR 24-OCT-1997; 97US-0063121P.

PR 28-OCT-1997; 97US-0063540P.

PR 28-OCT-1997; 97US-0063541P.

PR 28-OCT-1997; 97US-0063544P.

PR 28-OCT-1997; 97US-0063564P.

PR 29-OCT-1997; 97US-0063734P.

PR 31-OCT-1997; 97US-0063870P.

PR 31-OCT-1997; 97US-0064103P.

PR 13-NOV-1997; 97US-0065311P.

PR 21-NOV-1997; 97US-0066120P.

PR 24-NOV-1997; 97US-0066466P.

PR 24-NOV-1997; 97US-0066772P.

PR 11-DEC-1997; 97US-0069335P.

PR 12-DEC-1997; 97US-0069425P.

PR 17-DEC-1997; 97US-0069870P.

PR 18-DEC-1997; 97US-0068017P.

PR 10-MAR-1998; 98US-0077450P.

PR 11-MAR-1998; 98US-0077632P.

PR 11-MAR-1998; 98US-0077649P.

PR 20-MAR-1998; 98US-0078886P.

PR 20-MAR-1998; 98US-0078939P.

PR 27-MAR-1998; 98US-0079664P.

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PR 31-MAR-1998; 98US-0080107P.

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PR 08-APR-1998; 98US-0081049P.

PR 09-APR-1998; 98US-0081070P.

PR 15-APR-1998; 98US-0081838P.

PR 21-APR-1998; 98US-0082568P.

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PR 05-MAY-1998; 98US-0084366P.

PR 06-MAY-1998; 98US-0084414P.

PR 07-MAY-1998; 98US-0084639P.

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PR 16-SEP-1998; 98WO-US019330.
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PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.
PR 07-OCT-1998; 98US-0103395P.

Query Match 98.7%; Score 1101; DB 6; Length 382;
Best Local Similarity 96.3%; Pred. No. 5.2e-103;
Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
QY 1 ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRRLNFEHAEACRRDGGQLYSI 52
Db 22 ATGRLLSASDLRLGGQPCVCRGGTQPCYKVIYFHDTSRRLNFEHAEACRRDGGQLYSI 81
QY 53 ESEDEQKLEKFIENLLPSDGDGFWIGLRRREEKQSNSTACQDIYAWTDGSIQFRNWIYD 112
Db 82 ESEDEQKLEKFIENLLPSDGDGFWIGLRRREEKQSNSTACQDIYAWTDGSIQFRNWIYD 141
QY 113 EPSCGSEVCVMYHQPSAPAGIGGPFYMFQWDDRCNMKNFNICKYSDEKPAVPSREAEGE 172

Db 142 EPSCGSEVCVMYHQPSAPAGIGGPFYMFQWDDRCNMKNFNICKYSDEKPAVPSREAEGE 201
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ID ABUS4370 standard; protein; 382 AA.
XX
AC ABUS4370;
XX
DT 10-MAR-2003 (first entry)
XX
DE Human secreted/transmembrane protein PRO234.
XX
KW Human; PRO; secreted protein; transmembrane protein; enterocolitis;
KW gastrointestinal ulceration; skin disease;
KW abnormal keratinocyte differentiation; psoriasis; epithelial cancer;
KW squamous cell carcinoma; Alzheimer's disease; Parkinson's disease;
KW amyotrophic lateral sclerosis; inflammatory disease;
KW rheumatoid arthritis; asthma; multiple sclerosis; organ failure;
KW atherosclerosis; cardiac injury; infertility; birth defect;
KW premature aging; AIDS; acquired immunodeficiency syndrome; cancer;
KW diabetic complication; wound repair.

XX Homo sapiens.
OS
XX US2002132240-A1.
PN
XX 19-SEP-2002.
PD
XX 18-JUL-2001; 2001US-00909320.
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XX 17-SEP-1997; 97US-0059113P.
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PR 31-OCT-1997; 97US-0063870P.
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PR 03-NOV-1997; 97US-0064248P.
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 PR 17-NOV-1997; 97US-0065846P.
 PR 18-NOV-1997; 97US-0065693P.
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 PR 10-SEP-1998; 98WO-US018824.
 PR 14-SEP-1998; 98WO-US019177.
 PR 16-SEP-1998; 98WO-US019330.
 PR 17-SEP-1998; 98WO-US019437.
 PR 01-DEC-1998; 98WO-US025108.
 PR 08-SEP-1999; 99WO-US020594.
 PR 13-SEP-1999; 99WO-US020944.
 PR 15-SEP-1999; 99WO-US021090.
 PR 15-SEP-1999; 99WO-US021547.
 PR 05-OCT-1999; 99WO-US023089.
 PR 29-NOV-1999; 99WO-US028214.
 PR 30-NOV-1999; 99WO-US028313.
 PR 01-DEC-1999; 99WO-US028301.
 PR 02-DEC-1999; 99WO-US028564.
 PR 02-DEC-1999; 99WO-US028565.
 PR 16-DEC-1999; 99WO-US030095.
 PR 20-DEC-1999; 99WO-US030911.
 PR 20-DEC-1999; 99WO-US030999.
 PR 06-JAN-2000; 2000WO-US000219.
 PR 11-FEB-2000; 2000WO-US003565.
 PR 22-FEB-2000; 2000WO-US004414.
 PR 24-FEB-2000; 2000WO-US005004.
 PR 02-MAR-2000; 2000WO-US005841.
 PR 20-MAR-2000; 2000WO-US007377.
 PR 30-MAR-2000; 2000WO-US008439.
 PR 22-MAY-2000; 2000WO-US014042.
 PR 02-JUN-2000; 2000WO-US015264.
 PR 28-JUL-2000; 2000WO-US020710.
 PR 24-AUG-2000; 2000WO-US023328.
 PR 18-SEP-2000; 2000US-00665350.

(GETH) GENENTECH INC.

XX Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
 PI Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
 PI Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IJ;
 PI Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
 PI Williams PM, Wood WI;

XX WPI; 2003-147434/14.
 DR N-PSDB; ABX71560.

XX New PRO polypeptides and nucleic acid molecules, useful in diagnosing or
 PT treating inflammatory diseases, organ failure, atherosclerosis, cardiac
 PT injury, infertility, cancer, AIDS, Alzheimer's disease or Parkinson's
 PT disease.

XX Claim 12; Fig 50; 473pp; English.

XX The invention relates to an isolated PRO polypeptide having at least 80%
 CC amino acid sequence identity to: (a) any one of 61 fully defined amino
 CC acid sequences given in the specification (appearing as ABU54347-
 CC ABU54407); (b) an amino acid sequence encoded by the nucleotide sequence
 CC deposited under American Type Culture Collection (accession numbers
 CC listed in the specification); (c) any one of the PRO sequences which
 CC lacks its associated signal peptide; (d) an extracellular domain of the
 CC PRO polypeptide with its associated signal peptide; or (e) an
 CC extracellular domain of the PRO polypeptide which lacks its associated
 CC signal peptide. Also include are the nucleic acids encoding the PRO
 CC polypeptides, vectors, host cells and anti-PRO antibodies. The PRO
 CC polypeptides and nucleic acids are useful in diagnosing or treating

CC enterocolitis, gastrointestinal ulceration, skin diseases associated with
 CC abnormal keratinocyte differentiation, e.g. psoriasis or epithelial
 CC cancers such as squamous cell carcinoma, Alzheimer's disease, Parkinson's
 CC disease, amyotrophic lateral sclerosis, inflammatory diseases, e.g.
 CC rheumatoid arthritis, asthma or multiple sclerosis, organ failure,
 CC atherosclerosis, cardiac injury, infertility, birth defects, premature
 CC aging, AIDS, cancer, diabetic complications, or mutations in general. The
 CC polypeptides are also useful for wound repair and associated therapies
 CC concerned with re-growth of tissue. The nucleotide sequences may be used
 CC as hybridisation probes in chromosome and gene mapping, or in generating
 CC antisense RNA and DNA. PRO nucleic acids are also useful in preparing PRO
 CC polypeptides, in assays to identify other proteins or molecules involved
 CC in binding reaction, to generate transgenic animals or knockout animals,
 CC which in turn are useful in the development and screening of
 CC therapeutically useful reagents, for chromosome identification, and
 CC tissue typing. The PRO polypeptides and nucleic acid molecules are also
 CC useful in gene therapy, and as molecular weight markers for protein
 CC electrophoresis purposes. The anti-PRO antibodies may be used in
 CC diagnostic assays for PRO, or for the affinity purification of PRO from
 CC recombinant cell culture or natural sources. The present sequence
 CC represents a PRO polypeptide

XX SQ Sequence 382 AA;

Query Match 98.7%; Score 1101; DB 6; Length 382;
 Best Local Similarity 96.3%; Pred. No. 5.2e-103;
 Matches 206; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 ATGRLLS-----GQVCRGGTQPCYKVIYFHDTSRRLLNFEEAKEACRRDGGQLVSI 52
 Db |||||
 22 ATGRLLSASDLRLGGQPVCRGGTQPCYKVIYFHDTSRRLLNFEEAKEACRRDGGQLVSI 81
 QY 53 ESEDEQKLIKFIENLLPSDGFWIGLRRRREKQSNSTACQDLYAWTDGSIQFRNWWYVD 112
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 Db |||||
 142 EPSCGSEVCVMVYHOPSAAGIGGPPYMFQWDDRCNMKNFICKYSEKPAVPSREAEGE 201
 QY 173 ETELTPVLPEETQEDAKKTFKESREAAALNLAY 206
 Db |||||
 202 ETELTPVLPEETQEDAKKTFKESREAAALNLAY 235

Search completed: September 9, 2004, 22:36:20
 Job time : 127 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 9, 2004, 22:18:00 ; Search time 60 Seconds
(without alignments)
1761.213 Million cell updates/sec

Title: US-09-887-855-2
Perfect score: 2000
Sequence: 1 MRPGTALQAVLLAVLLVGLR.....PDQMGRSKESGWVENEIYGY 374

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1586107 seqs, 282547505 residues

Total number of hits satisfying chosen parameters: 1586107

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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4: geneseqp2001s.*
5: geneseqp2002s.*
6: geneseqp2003as.*
7: geneseqp2003bs.*
8: geneseqp2004s.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	2000	100.0	374	5	ABB90203	Abb90203 Human pol
4	2000	100.0	374	6	ADA54522	Ada54522 Human pro
5	1996	99.8	374	6	ADA54574	Ada54574 Human pro
6	1990	99.5	374	3	AAV91490	Aay91490 Human sec
7	1986	99.3	382	2	AAV13367	Aay13367 Amino aci
8	1986	99.3	382	3	ADC78457	Adc78457 Human PRO
9	1986	99.3	382	4	AAV80235	Aab80235 Human PRO
10	1986	99.3	382	4	AAU29033	Aau29033 Human PRO
11	1986	99.3	382	6	ABU58409	Abu58409 Human PRO
12	1986	99.3	382	6	ABU71613	Abu71613 Human PRO
13	1986	99.3	382	6	ABU87957	Abu87957 Novel hum
14	1986	99.3	382	6	ABU84272	Abu84272 Human sec
15	1986	99.3	382	6	ABR66146	AbR66146 Human sec
16	1986	99.3	382	6	ABR65536	AbR65536 Human sec
17	1986	99.3	382	6	ABU99476	Abu99476 Human sec
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20	1986	99.3	382	6	ABU71468	Abu71468 Human PRO
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22	1986	99.3	382	6	ABU96138	Abu96138 Novel hum
23	1986	99.3	382	6	ABU92569	Abu92569 Human sec
24	1986	99.3	382	6	ABO08646	ABO08646 Human sec
25	1986	99.3	382	6	ABO02698	ABO02698 Human sec

26	1986	99.3	382	6	ABR74852	Abr74852 Human sec
27	1986	99.3	382	6	ABR94614	Abr94614 Human sec
28	1986	99.3	382	6	ABU85587	Abu85587 Human PRO
29	1986	99.3	382	6	ABU98747	Abu98747 Novel hum
30	1986	99.3	382	6	ABU97962	Abu97962 Novel hum
31	1986	99.3	382	6	ABU91668	Abu91668 Novel hum
32	1986	99.3	382	6	ABU71914	Abu71914 Human sec
33	1986	99.3	382	6	ABU89361	Abu89361 Human PRO
34	1986	99.3	382	6	ABU86202	Abu86202 Human sec
35	1986	99.3	382	6	ABU67415	Abu67415 Human sec
36	1986	99.3	382	6	ABU80443	Abu80443 Human PRO
37	1986	99.3	382	6	ABO01797	ABO01797 Novel hum
38	1986	99.3	382	6	ABR99361	Abr99361 Human sec
39	1986	99.3	382	6	ABR98751	Abr98751 Human sec
40	1986	99.3	382	6	ABO16274	ABO16274 Human sec
41	1986	99.3	382	6	ABR92174	Abr92174 Human sec
42	1986	99.3	382	6	ABO18815	ABO18815 Human sec
43	1986	99.3	382	6	ABR78236	Abr78236 Human sec
44	1986	99.3	382	6	ABU84972	Abu84972 Novel hum
45	1986	99.3	382	6	ABO00111	ABO00111 Novel hum

ALIGNMENTS

RESULT 1
AAV93948
ID AAY93948 standard; protein; 374 AA.
XX
AC AAY93948;
XX
DT 03-OCT-2000 (first entry)
XX
DE Amino acid sequence of a lectin ss3939 polypeptide.
XX
KW Human; lectin ss3939; chromosome 11; gene therapy.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Peptide 1..21
FT /note= "signal peptide"
FT Domain 22..227
FT /note= "extracellular coding region"
FT Domain 228..248
FT /note= "predicted transmembrane domain"
FT Domain 249..374
FT /note= "predicted cytoplasmic or intracellular domain"

XX WO200039296-A1.
PN
XX
PD 06-JUL-2000.
XX
PF 22-DEC-1999; 99WO-US030523.
XX
PR 23-DEC-1998; 98US-0113820P.
XX
PA (IMMV) IMMUNEX CORP.
XX
XX Anderson DA;
PI
XX WPI; 2000-452394/39.
DR N-PSDB; AAA57382.
DR
XX ss3939 nucleic acids, polypeptides and antibodies, useful for identifying human chromosome 11 and diseases associated with it.
PT
XX Claim 12; Page 8; 73pp; English.
PS

XX The present sequence represents a human lectin ss3939 polypeptide. The polynucleotide sequence is a source of probes, which may be used to identify nucleic acids encoding ss3939 proteins, to identify human chromosome number 11, to map genes on human chromosome number 11, to

CC identify diseases associated with chromosome 11, as single-stranded sense
CC or antisense oligonucleotides to inhibit expression of polypeptides
CC encoded by the ss3939 gene, and for gene therapy. The ss3939 polypeptides
CC may be useful for developing treatments for diseases (none specified)
CC associated with defective or insufficient amounts of the polypeptides.
CC The antibodies may be useful for detecting the presence of ss3939
CC polypeptides
XX
SQ Sequence 374 AA;

FT		adhesion molecule (XMAP)"
FT	Domain	46..63
FT		/note= "C-type lectin domain"
FT	Domain	163..176
FT		/note= "C-type lectin domain"
FT	Domain	224..247
FT		/note= "Transmembrane motif"
FT	Domain	328..348
FT		/note= "Transmembrane motif"

FT	/note= "Mature human extracellular matrix and cell
----	--

QY 61 EACRRDGGQLVSI ESEDEQKLEKFIENLLPSDGDGFWIGLRRREEKQSNSTACQDLYAWT 120
Db 61 EACRRDGGQLVSI ESEDEQKLEKFIENLLPSDGDGFWIGLRRREEKQSNSTACQDLYAWT 120
QY 121 DGSISQFRNWWYVDEPSCGSEVCVVMYHQPSAPAGIGGPPYMFQWNDRCNMKNFICKYSD 180
Db 121 DGSISQFRNWWYVDEPSCGSEVCVVMYHQPSAPAGIGGPPYMFQWNDRCNMKNFICKYSD 180
QY 181 EKPAVPSREAEGETELTTPVLPEETOEDAKKTFKESREAAALNLAYILIPSIPLLLLV 240
Db 181 EKPAVPSREAEGETELTTPVLPEETOEDAKKTFKESREAAALNLAYILIPSIPLLLLV 240
QY 241 VTTVVCWWVICRKRKRQPDSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSEADLAETRP 300
Db 241 VTTVVCWWVICRKRKRQPDSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSEADLAETRP 300
QY 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYEFSPDQMR 360
Db 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYEFSPDQMR 360
QY 361 SKESGWVENEIYGY 374
Db 361 SKESGWVENEIYGY 374
RESULT 3
ABB90203
ID ABB90203 standard; protein; 374 AA.
AC ABB90203;
XX
DT 24-MAY-2002 (first entry)
DE Human polypeptide SEQ ID NO 2579.
XX
KW Cytostatic; immunosuppressive; nootropic; neuroprotective; antiviral;
KW antiallergic; hepatotropic; antidiabetic; antiinflammatory; antiulcer;
KW vulnerrary; anticonvulsant; antibacterial; antifungal; antiparasitic;
KW cardiant; gene therapy; cancer; immune disorder; cardiovascular disorder;
KW neurological disease; infection; human; secreted protein.
OS Homo sapiens.
XX
XX WO200190304-A2.
XX
XX 29-NOV-2001.
XX 18-MAY-2001; 2001WO-US016450.
XX 19-MAY-2000; 2000US-0205515P.
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX Birse CE, Rosen CA;
XX
XX WPI; 2002-122018/16.
DR N-PSDB; ABL90612.
XX
XX Novel 1405 isolated polypeptides, useful for diagnosis, treatment and
PT prevention of neural, immune system, muscular, reproductive,
PT gastrointestinal, pulmonary, cardiovascular, renal and proliferative
PT disorders.
XX
PS Claim 11; SEQ ID NO 2579; 2081pp + Sequence Listing; English.
XX
XX The invention relates to novel genes (ABL89449-ABL90853) and proteins
CC (ABB89040-ABB90444) useful for preventing, treating or ameliorating
CC medical conditions e.g. by protein or gene therapy. The genes are
CC isolated from a range of human tissues disclosed in the specification.
CC The nucleic acids, proteins, antibodies and (ant)agonists are useful in
CC the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and
CC ovarian cancer and other cancers of the adrenal gland, bone, bone marrow,
CC breast, gastrointestinal tract, liver, lung, or urogenital; (b) immune

CC disorders e.g. Addison's disease, allergies, autoimmune haemolytic
CC anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease,
CC multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c)
CC cardiovascular disorders such as myocardial ischaemias; (d) wound healing
CC ; (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f)
CC infectious diseases such as viral, bacterial, fungal and parasitic
CC infections. Note: The sequence data for this patent did not form part of
CC the printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 374 AA;
Query Match 100.0%; Score 2000; DB 5; Length 374;
Best Local Similarity 100.0%; Pred. No. 2.1e-182;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCVRGGTORPCYKVYFHDTSRRLNFEAK 60
Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCVRGGTORPCYKVYFHDTSRRLNFEAK 60
QY 61 EACRRDGGQLVSI ESEDEQKLEKFIENLLPSDGDGFWIGLRRREEKQSNSTACQDLYAWT 120
Db 61 EACRRDGGQLVSI ESEDEQKLEKFIENLLPSDGDGFWIGLRRREEKQSNSTACQDLYAWT 120
QY 121 DGSISQFRNWWYVDEPSCGSEVCVVMYHQPSAPAGIGGPPYMFQWNDRCNMKNFICKYSD 180
Db 121 DGSISQFRNWWYVDEPSCGSEVCVVMYHQPSAPAGIGGPPYMFQWNDRCNMKNFICKYSD 180
QY 181 EKPAVPSREAEGETELTTPVLPEETOEDAKKTFKESREAAALNLAYILIPSIPLLLLV 240
Db 181 EKPAVPSREAEGETELTTPVLPEETOEDAKKTFKESREAAALNLAYILIPSIPLLLLV 240
QY 241 VTTVVCWWVICRKRKRQPDSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSEADLAETRP 300
Db 241 VTTVVCWWVICRKRKRQPDSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSEADLAETRP 300
QY 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYEFSPDQMR 360
Db 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYEFSPDQMR 360
QY 361 SKESGWVENEIYGY 374
Db 361 SKESGWVENEIYGY 374
RESULT 4
ADA54522
ID ADA54522 standard; protein; 374 AA.
XX
AC ADA54522;
XX 20-NOV-2003 (first entry)
XX Human protein, SEQ ID 2090.
DE
XX Cytostatic; Anti-inflammatory; Osteopathic; Neuroprotective; Nootropic;
KW Gene Therapy; human; secretory protein; membrane proteins; cancer;
KW inflammatory disease; osteoporosis; neurological disease.
XX Homo sapiens.
OS
XX EP1293569-A2.
XX
PD 19-MAR-2003.
XX
PF 21-MAR-2002; 2002EP-00006586.
XX
PR 14-SEP-2001; 2001JP-00328381.
PR 24-JAN-2002; 2002US-0350435P.
XX
PA (HELI-) HELIX RES INST.
PA (REAS-) RES ASSOC BIOTECHNOLOGY.
XX

PI Isogai T, Sugiyama T, Otsuki T, Wakamatsu A, Sato H, Ishii S;
PI Yamamoto J, Isono Y, Hio Y, Otsuka K, Nagai K, Irie R, Tamechika I;
PI Seki N, Yoshikawa T, Otsuka M, Nagahari K, Masuho Y;
XX
DR WPI; 2003-395539/38.
DR N-PSDB; ADA52883.
XX
PT New polynucleotides encoding full-length polypeptides, e.g. secretory
PT and/or membrane proteins, useful for developing medicines for diseases in
PT which the gene is involved, or as target molecules for gene therapy.
XX
PS Claim 14; SEQ ID NO 2090; 205pp; English.
XX
CC The present invention relates to novel human secretory or membrane
CC proteins (ADA54072-ADA55710) and their coding sequences (ADA52433-
CC ADA54071). The coding sequences are useful in the gene therapy of
CC diseases caused by abnormalities of the proteins, e.g. cancer,
CC inflammatory diseases, osteoporosis or neurological disease.
XX
SQ Sequence 374 AA;

Query Match 100.0%; Score 2000; DB 6; Length 374;
Best Local Similarity 100.0%; Pred. No. 2.1e-182;
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEAK 60
Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEAK 60
Qy 61 EACRRDGGQLVSIIESEDEQKLIIEKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWT 120
Db 61 EACRRDGGQLVSIIESEDEQKLIIEKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWT 120
Qy 121 DGSISQFRNWWYVDEPSCGSEVCVVMYHQPSAPAGIGGPPYMFQWDDRCNMKNNFICKYSD 180
Db 121 DGSISQFRNWWYVDEPSCGSEVCVVMYHQPSAPAGIGGPPYMFQWDDRCNMKNNFICKYSD 180
Qy 181 EKPAVPSREAEGEETELTTPVLPEETQEDAKTKTFKESREAAALNLAAYILIPSIPLLLLV 240
Db 181 EKPAVPSREAEGEETELTTPVLPEETQEDAKTKTFKESREAAALNLAAYILIPSIPLLLLV 240
Qy 241 VTTVVCWWVICRKRKREQDPSTKKQHTIWPSPHQNSPDLEVNVRKQSEADLAETRP 300
Db 241 VTTVVCWWVICRKRKREQDPSTKKQHTIWPSPHQNSPDLEVNVRKQSEADLAETRP 300
Qy 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFTNDIYEFSPDQMG 360
Db 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFTNDIYEFSPDQMG 360
Qy 361 SKESGWVENEIYGY 374
Db 361 SKESGWVENEIYGY 374

RESULT 5
ADA54574
ID ADA54574 standard; protein; 374 AA.
XX
AC ADA54574;
XX
DT 20-NOV-2003 (first entry)
XX
DE Human protein, SEQ ID 2142.
XX
KW Cytostatic; Anti-inflammatory; Osteopathic; Neuroprotective; Nootropic;
KW Gene Therapy; human; secretory protein; membrane proteins; cancer;
KW inflammatory disease; osteoporosis; neurological disease.
XX
OS Homo sapiens.
XX
PN EPI293569-A2.
XX
PD 19-MAR-2003.

XX 21-MAR-2002; 2002EP-00006586.
PF
XX 14-SEP-2001; 2001JP-00328381.
PR 24-JAN-2002; 2002US-0350435P.
XX
PA (HELI-) HELIX RES INST.
PA (REAS-) RES ASSOC BIOTECHNOLOGY.
XX
PI Isogai T, Sugiyama T, Otsuki T, Wakamatsu A, Sato H, Ishii S;
PI Yamamoto J, Isono Y, Hio Y, Otsuka K, Nagai K, Irie R, Tamechika I;
PI Seki N, Yoshikawa T, Otsuka M, Nagahari K, Masuho Y;
XX
DR WPI; 2003-395539/38.
DR N-PSDB; ADA52935.
XX
PT New polynucleotides encoding full-length polypeptides, e.g. secretory
PT and/or membrane proteins, useful for developing medicines for diseases in
PT which the gene is involved, or as target molecules for gene therapy.
XX
PS Claim 14; SEQ ID NO 2142; 205pp; English.
XX
CC The present invention relates to novel human secretory or membrane
CC proteins (ADA54072-ADA55710) and their coding sequences (ADA52433-
CC ADA54071). The coding sequences are useful in the gene therapy of
CC diseases caused by abnormalities of the proteins, e.g. cancer,
CC inflammatory diseases, osteoporosis or neurological disease.
XX
SQ Sequence 374 AA;

Query Match 99.8%; Score 1996; DB 6; Length 374;
Best Local Similarity 99.7%; Pred. No. 5.1e-182;
Matches 373; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEAK 60
Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEAK 60
Qy 61 EACRRDGGQLVSIIESEDEQKLIIEKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWT 120
Db 61 EACRRDGGQLVSIIESEDEQKLIIEKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWT 120
Qy 121 DGSISQFRNWWYVDEPSCGSEVCVVMYHQPSAPAGIGGPPYMFQWDDRCNMKNNFICKYSD 180
Db 121 DGSISQFRNWWYVDEPSCGSEVCVVMYHQPSAPAGIGGPPYMFQWDDRCNMKNNFICKYSD 180
Qy 181 EKPAVPSREAEGEETELTTPVLPEETQEDAKTKTFKESREAAALNLAAYILIPSIPLLLLV 240
Db 181 EKPAVPSREAEGEETELTTPVLPEETQEDAKTKTFKESREAAALNLAAYILIPSIPLLLLV 240
Qy 241 VTTVVCWWVICRKRKREQDPSTKKQHTIWPSPHQNSPDLEVNVRKQSEADLAETRP 300
Db 241 VTTVVCWWVICRKRKREQDPSTKKQHTIWPSPHQNSPDLEVNVRKQSEADLAETRP 300
Qy 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFTNDIYEFSPDQMG 360
Db 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFTNDIYEFSPDQMG 360
Qy 361 SKESGWVENEIYGY 374
Db 361 SKESGWVENEIYGY 374

RESULT 6
AAY91490
ID AAY91490 standard; protein; 374 AA.
XX
AC AAY91490;
XX
DT 29-JUN-2000 (first entry)
XX
DE Human secreted protein sequence encoded by gene 40 SEQ ID NO:163.
XX

KW Human; secreted protein; diagnosis; cytostatic; neuroprotective; immunosuppressive;
KW antiHIV; antiinflammatory; nootropic; neuroprotective; antiallergic;
KW osteopathic; antiarthritic; antibacterial; antidiabetic; antiasthma;
KW antipsoriatic; cardiant; gene therapy; cancer; neurological disorder;
KW immune disease; inflammation; blood disorder; tumour.
XX
OS Homo sapiens.
XX WO200006698-A1.
PN
XX
PD 10-FEB-2000.
XX
PF 29-JUL-1999; 99WO-US017130.
XX
PR 30-JUL-1998; 98US-0094657P.
PR 05-AUG-1998; 98US-0095486P.
PR 06-AUG-1998; 98US-0095454P.
PR 06-AUG-1998; 98US-0095455P.
PR 12-AUG-1998; 98US-0096319P.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
PA
XX
PI Komatsoulis GA, Rosen CA, Ruben SM, Duan R, Moore PA, Shi Y;
PI Lafleur D, Wei Y, Ni J, Florence KA, Young PE, Brewer LA;
PI Soppet DR, Endress GA, Ebner R, Olsen HS, Mucenski M;
XX
DR WPI; 2000-195282/17.
DR N-PSDB; AAA26395.
XX
PT New isolated human genes and the secreted polypeptides they encode,
PT useful for diagnosis and treatment of e.g. cancers, neurological
PT disorders, immune diseases, inflammation or blood disorders.
XX
PS Claim 11; Page 483-484; 634pp; English.
XX
CC The polynucleotide sequences given in AAA26346 to AAA26458 encode the
CC human secreted proteins given in AAY91451 to AAY91691. The human secreted
CC proteins can have activities based on the tissues and cells they are
CC expressed in. Examples of the activities are: cytostatic;
CC immunosuppressive; antiHIV; antiinflammatory; nootropic; neuroprotective;
CC antiallergic; osteopathic; antiarthritic; antibacterial; antidiabetic;
CC antiasthma; antipsoriatic; and cardiant. The polynucleotides and their
CC corresponding secreted proteins are useful for preventing, treating or
CC ameliorating medical conditions, e.g. by protein or gene therapy. Also
CC pathological conditions can be diagnosed by determining the amount of the
CC proteins in a sample or by determining the presence of mutations in the
CC polynucleotides. Specific uses are described for each of the
CC polynucleotides, based on which tissues they are most highly expressed
CC in, and include developing products for the diagnosis or treatment of
CC cancer, tumours, neurodegenerative disorders, developmental abnormalities
CC and foetal deficiencies, blood disorders, diseases of the immune system,
CC autoimmune diseases, hepatic and renal disease, inflammation, allergies,
CC Alzheimer's and behavioural disorders, schizophrenia, osteoporosis,
CC arthritis, infections, AIDS, spinal cord injuries, transplant rejection,
CC diabetes, asthma, sepsis, acne, psoriasis, cardiovascular disorders,
CC reproductive disorders, gastrointestinal disorders, respiratory disorders
CC and metabolic disorders. The proteins or polynucleotides can also be used
CC as food additives or preservatives. The proteins are also useful for
CC identifying their binding partners. AAA26337 to AAA26345 and AAY91450 are
CC sequences used in the exemplification of the present invention
XX
SQ Sequence 374 AA;

Query Match 99.5%; Score 1990; DB 3; Length 374;
Best Local Similarity 99.5%; Pred. No. 1.9e-181;
Matches 372; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRCGGTQPCYKVIYFHDTSRRLNPEEAK 60
|||
Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRCGGTQPCYKVIYFHDTSRRLNPEEAK 60
|||
QY 61 EACRRDGGQLVSI ESEDEQKLI EKFIEIENLLPSD GDFWIGLR RREEKQSNSTX CQDLYAWT 120
|||

Db 61 EACRRDGGQLVSI ESEDEQKLI EKFIEIENLLPSD GDFWIGLR RREEKQSNSTX CQDLYAWT 120
QY 121 DGSISQFRNWYVDEP SCGSEVCVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFICKYS D 180
|||
Db 121 DGSISQFRNWYVDEP SCGSEVCVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFICKYS D 180
|||
QY 181 EKPAVPSRAEAGEETELTTPVLPEETQEEADAKKTFKESREALNLAYILIPSIPLLLLV 240
|||
Db 181 EKPAVPSRAEAGEETELTTPVLPEETQEEADAKKTFKESREALNLAYILIPSIPLLLLV 240
|||
QY 241 VTTVVCVWVICRKRKRREQDPDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSEADLAETRP 300
|||
Db 241 VTTVVCVWVICRKRKRREQDPDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSEADLAETRP 300
|||
QY 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYEFSPDQMGR 360
|||
Db 301 DLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYEFSPDQMGR 360
|||
QY 361 SKESGWVENEIYGY 374
|||
Db 361 SKESGWVENEIYGY 374
|||

RESULT 7
AAY13367
ID AAY13367 standard; protein; 382 AA.
XX
AC AAY13367;
XX
DT 25-JUN-1999 (first entry)
XX
DE Amino acid sequence of protein PRO234.
XX
KW Secreted protein; transmembrane protein; human; enterocolitis;
KW Zollinger-Ellison syndrome; gastrointestinal ulceration;
KW congenital microvillus atrophy; skin disease; cell growth;
KW abnormal keratinocyte differentiation; psoriasis; epithelial cancer;
KW Parkinson's disease; Alzheimer's disease; ALS; neuropathy; fibromodulin;
KW dermal scarring; Usher Syndrome; Atrophia areata; anti-thrombotic;
KW wound healing; tissue repair.
XX
OS Homo sapiens.
XX WO9914328-A2.
XX
PD 25-MAR-1999.
XX
PF 16-SEP-1998; 98WO-US019330.
XX
PR 17-SEP-1997; 97US-0059113P.
PR 17-SEP-1997; 97US-0059115P.
PR 17-SEP-1997; 97US-0059117P.
PR 17-SEP-1997; 97US-0059119P.
PR 17-SEP-1997; 97US-0059121P.
PR 17-SEP-1997; 97US-0059122P.
PR 17-SEP-1997; 97US-0059184P.
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 15-OCT-1997; 97US-0062125P.
PR 17-OCT-1997; 97US-0062285P.
PR 17-OCT-1997; 97US-0062287P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0062814P.
PR 24-OCT-1997; 97US-0062816P.
PR 24-OCT-1997; 97US-0063045P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 24-OCT-1997; 97US-0063127P.
PR 24-OCT-1997; 97US-0063128P.
PR 27-OCT-1997; 97US-0063327P.
PR 27-OCT-1997; 97US-0063329P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063542P.

28-OCT-1997; 97US-0063544P.
28-OCT-1997; 97US-0063549P.
28-OCT-1997; 97US-0063550P.
28-OCT-1997; 97US-0063564P.
29-OCT-1997; 97US-0063435P.
29-OCT-1997; 97US-0063704P.
29-OCT-1997; 97US-0063732P.
29-OCT-1997; 97US-0063734P.
29-OCT-1997; 97US-0063735P.
29-OCT-1997; 97US-0063738P.
29-OCT-1997; 97US-0064215P.
31-OCT-1997; 97US-0063870P.
31-OCT-1997; 97US-0064103P.
03-NOV-1997; 97US-0064248P.
07-NOV-1997; 97US-0064809P.
12-NOV-1997; 97US-0065186P.
17-NOV-1997; 97US-0065846P.
18-NOV-1997; 97US-0065693P.
21-NOV-1997; 97US-0066120P.
21-NOV-1997; 97US-0066364P.
24-NOV-1997; 97US-0066453P.
24-NOV-1997; 97US-0066466P.
24-NOV-1997; 97US-0066511P.
24-NOV-1997; 97US-0066770P.
24-NOV-1997; 97US-0066772P.
25-NOV-1997; 97US-0066840P.
(GETH) GENENTECH INC.
Wood WI, Gurney AL, Goddard A, Pennica D, Chen J, Yuan J;
WPI; 1999-229533/19.
N-PSDB; AAX52238.
New isolated human genes and polypeptides used in, e.g. treatment of
gastrointestinal ulceration.
Claim 12; Fig 50; 320pp; English.
AA13344-403 represent secreted and transmembrane human proteins. The
cDNA sequences are obtained from cDNA libraries, prepared from fetal
lung, fetal kidney, fetal brain, fetal liver and fetal retina. The
encoded polypeptides have specific uses based on their homology to known
polypeptides, e.g. PRO211 and PRO217 can be used for disorders associated
with the preservation and maintenance of gastrointestinal mucosa and the
repair of acute and chronic mucosal lesions (e.g. enterocolitis,
Zollinger-Ellison syndrome, gastrointestinal ulceration and congenital
microvillus atrophy), skin diseases associated with abnormal keratinocyte
differentiation (e.g. psoriasis, epithelial cancers such as lung squamous
cell carcinoma of the vulva and gliomas), potent effects on cell growth
and development, diseases related to growth or survival of nerve cells
including Parkinson's disease, Alzheimer's disease, ALS, neuropathies or
cancer. PRO265 can be used as for fibromodulin, e.g. for reducing dermal
scarring. PRO264 can be used as a target for anti-tumor drugs. PRO533 may
be used in the treatment of Usher Syndrome or Atrophia areata; PRO269 can
be used as an anti-thrombotic agent; PRO287 polypeptides and portions may
have therapeutic applications in wound healing and tissue repair; PRO317
can be used for treating problems of the kidney, uterus, endometrium,
blood vessels, or related tissue, e.g. in the heart of genital tract
Sequence 382 AA;

[illegible]

RESULT 8

ADC78457
ID ADC78457 standard; protein; 382 AA.

AC ADC78457;

DT 01-JAN-2004 (first entry)

Human PRO234 protein.

antiinflammatory; antiulcer; cytostatic; antipsoriatic; antiparkinsonian; antitumor; neuroprotective; vasotropic; chemotactic; angiogenic; neurotrophic; osteopathic; antiasthmatic; antiarthritic; antirheumatic; antiarteriosclerotic; cardiant; antidiabetic; cerebroprotective; thrombolytic; immunomodulator; enterocolitis; Zollinger-Ellison syndrome; gastrointestinal ulceration; psoriasis; cancer; Parkinson's disease; Alzheimer's; ALS; neuropathy; dermal scarring; wound healing; nerve repair; thrombosis; bone; cartilage formation; angiogenesis; asthma; rheumatoid arthritis; multiple sclerosis; inflammatory disorder; atherosclerosis; cardiac injury; infertility; premature aging; AIDS; diabetes; stroke; gene therapy; transgenic; PRO; human.

OS Homo sapiens.

PN WO200015796-A2.

23-MAR-2000.

15-SEP-1999: 99WO-US021090.

16-SEP-1998: 98WO-US019330.

PA (GETH) GENENTECH INC.

Chen J, Goddard A, Gurney AL, Hillan K, Pennica D, Wood WI;
PI Yuan J;

DR WPI: 2000-271434/23.

DR N-PSDB; ADC78456.

Novel nucleic acids encoding secreted and transmembrane polypeptides with PT homology, e.g. to growth and cancer-associated antigens.

PS Claim 12: SEO ID NO 137; 355pp; English.

xx The invention relates to a novel nucleic acid encoding a PRO polypeptide.
 CC The polypeptides and polynucleotides of the invention may be useful as
 CC research tools and as therapeutics for treating enterocolitis, Zollinger-
 CC Ellison syndrome, gastrointestinal ulceration, psoriasis, cancer,
 CC Parkinson's disease, Alzheimer's disease, ALS, neuropathies, dermal
 CC scarring and wound healing, nerve repair, thrombosis, bone and/or

CC cartilage formation, angiogenesis, asthma, rheumatoid arthritis, multiple
CC sclerosis, inflammatory disorders, atherosclerosis, cardiac injury,
CC infertility, premature aging, AIDS, diabetes complications and stroke.
CC The molecules may also be utilised during gene therapy procedures and
CC transgenic animal production. The current sequence is that of the human
CC PRO protein of the invention.
XX
SQ Sequence 382 AA;

Query Match 99.3%; Score 1986; DB 3; Length 382;
Best Local Similarity 97.9%; Pred. No. 4.8e-181;
Matches 374; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLS-----GQVCRGGTQRPCYKVIYFHDTSR 52
DB 1 MRPGTALQAVLLAVLLVGLRAATGRLLSASDLDLGGQPVCRGGTQRPCYKVIYFHDTSR 60
QY 53 RLNFEEAKEACRRDGGQLVSIIESEDEQKLIIEKFIENLLPSDGDGFWIGLRRREEKQSNSTA 112
DB 61 RLNFEEAKEACRRDGGQLVSIIESEDEQKLIIEKFIENLLPSDGDGFWIGLRRREEKQSNSTA 120
QY 113 CQDLIYAWTDGSIQFRNWWYVDEPSCGSEVCVVMYHQPSAPAGIGGPFYMFQWDDRCNMKN 172
DB 121 CQDLIYAWTDGSIQFRNWWYVDEPSCGSEVCVVMYHQPSAPAGIGGPFYMFQWDDRCNMKN 180
QY 173 NFICKYSDEKPAVPSREAEGETELTTPVLPEETOEDAKKTFKESREAAALNLAYILIPS 232
DB 181 NFICKYSDEKPAVPSREAEGETELTTPVLPEETOEDAKKTFKESREAAALNLAYILIPS 240
QY 233 IPLLILLVVTTVVVCWWVICRKRKREQDPDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSE 292
DB 241 IPLLILLVVTTVVVCWWVICRKRKREQDPDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSE 300
QY 293 ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVEGFTNDIYE 352
DB 301 ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVEGFTNDIYE 360
QY 353 FSPDQMGSRKESGWVENEIYGY 374
DB 361 FSPDQMGSRKESGWVENEIYGY 382

RESULT 9
AAB80235
ID AAB80235 standard; protein; 382 AA.
XX
AC AAB80235;
DT 24-APR-2001 (first entry)
XX
DE Human PRO234 protein.

XX Human; PRO; dermatological; antipsoriatic; cytostatic; antiinflammatory;
KW antiparkinsonian nootropic; neuroprotective; vulnerary; cardiant;
KW antiangiogenic; vasotropic; antiasthmatic; antirheumatic; cancer;
KW antiarthritic; antiinfertility; antidiabetic; antiviral; diabetes;
KW ophthalmological; gene therapy; skin disease; gastrointestinal disorder;
KW ischaemia; inflammation.
OS Homo sapiens.
XX
PN WO200104311-A1.
XX
PD 18-JAN-2001.
XX
PF 22-FEB-2000; 2000WO-US004414.
XX
XX 07-JUL-1999; 99US-0143048P.
PR 26-JUL-1999; 99US-0145698P.
PR 28-JUL-1999; 99US-0146222P.
PR 08-SEP-1999; 99WO-US020594.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021090.

PR 15-SEP-1999; 99WO-US021547.
PR 05-OCT-1999; 99WO-US023089.
PR 29-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 02-DEC-1999; 99WO-US028564.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
PR 05-JAN-2000; 2000WO-US000219.
XX
PA (GETH) GENENTECH INC.
XX

PI Ashkenazi AJ, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
PI Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
PI Godowski PJ, Grimaldi CJ, Gurney AL, Hillan KJ, Kljavin IJ;
PI Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
PI Williams PM, Wood WI;
XX
DR WPI; 2001-081051/09.
DR N-PSDB; AAF72396.

XX Sixty one nucleic acids encoding PRO polypeptides which are useful in the
PT treatment of skin diseases (e.g. psoriasis), cancers (e.g. lung squamous
PT cell carcinoma) and neurodegenerative diseases (e.g. Alzheimer's
PT disease).

PS Claim 1; Fig 50; 393pp; English.

XX The present sequence is one of sixty one novel secreted and transmembrane
CC PRO polypeptides. The PRO polypeptides are useful for treating skin
CC diseases (e.g. psoriasis), cancers (e.g. lung squamous cell carcinoma),
CC gastrointestinal disorders (e.g. enterocolitis), neurodegenerative
CC diseases (e.g. Alzheimer's disease, Parkinson's disease), wound repair,
CC cardiovascular disorders (e.g. endometrial bleeding angiogenesis,
CC ischaemias such as coronary ischaemia, atherosclerosis), inflammatory
CC disorders (e.g. asthma, rheumatoid arthritis, multiple sclerosis),
CC infertility, AIDS and diabetes and retinal disorders such as retinitis
CC pigmentosum. The PRO nucleic acids have applications in molecular
CC biology, including use as hybridization probes, and in chromosome and
CC gene mapping
XX

SQ Sequence 382 AA;

Query Match 99.3%; Score 1986; DB 4; Length 382;
Best Local Similarity 97.9%; Pred. No. 4.8e-181;
Matches 374; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLS-----GQVCRGGTQRPCYKVIYFHDTSR 52
DB 1 MRPGTALQAVLLAVLLVGLRAATGRLLSASDLDLGGQPVCRGGTQRPCYKVIYFHDTSR 60
QY 53 RLNFEEAKEACRRDGGQLVSIIESEDEQKLIIEKFIENLLPSDGDGFWIGLRRREEKQSNSTA 112
DB 61 RLNFEEAKEACRRDGGQLVSIIESEDEQKLIIEKFIENLLPSDGDGFWIGLRRREEKQSNSTA 120
QY 113 CQDLIYAWTDGSIQFRNWWYVDEPSCGSEVCVVMYHQPSAPAGIGGPFYMFQWDDRCNMKN 172
DB 121 CQDLIYAWTDGSIQFRNWWYVDEPSCGSEVCVVMYHQPSAPAGIGGPFYMFQWDDRCNMKN 180
QY 173 NFICKYSDEKPAVPSREAEGETELTTPVLPEETOEDAKKTFKESREAAALNLAYILIPS 232
DB 181 NFICKYSDEKPAVPSREAEGETELTTPVLPEETOEDAKKTFKESREAAALNLAYILIPS 240
QY 233 IPLLILLVVTTVVVCWWVICRKRKREQDPDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSE 292
DB 241 IPLLILLVVTTVVVCWWVICRKRKREQDPDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSE 300
QY 293 ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVEGFTNDIYE 352
DB 301 ADLAETRPDLKNISFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVEGFTNDIYE 360
QY 353 FSPDQMGSRKESGWVENEIYGY 374

Db 361 FSPDQGRSKESGWENEIYG 382
RESULT 10
AAU29033
ID AAU29033 standard; protein; 382 AA.
XX
AC AAU29033;
XX
DT 18-DEC-2001 (first entry)
XX
DE Human PRO polypeptide sequence #10.
XX
KW PRO polypeptide; mammal; tumour; cancer; human; cattle; horse; sheep;
KW dog; cat; pig; goat; rabbit; tumour necrosis factor alpha; TNF-alpha;
KW blood; chondrocyte cell; cell proliferation; cell differentiation; colon;
KW adrenal; lung; breast; prostate; rectum; cervix; liver; genetic disorder.
XX
OS Homo sapiens.
XX
XX WO200168848-A2.
XX
XX 20-SEP-2001.
XX
XX 28-FEB-2001; 2001WO-US006520.
XX
XX 01-MAR-2000; 2000WO-US005601.
XX
XX 02-MAR-2000; 2000WO-US005841.
XX
XX 03-MAR-2000; 2000US-0187202P.
XX
XX 06-MAR-2000; 2000US-0186968P.
XX
XX 14-MAR-2000; 2000US-0189320P.
XX
XX 14-MAR-2000; 2000US-0189328P.
XX
XX 15-MAR-2000; 2000WO-US006884.
XX
XX 21-MAR-2000; 2000US-0190828P.
XX
XX 21-MAR-2000; 2000US-0191007P.
XX
XX 21-MAR-2000; 2000US-0191048P.
XX
XX 21-MAR-2000; 2000US-0191314P.
XX
XX 28-MAR-2000; 2000US-0192655P.
XX
XX 29-MAR-2000; 2000US-0193032P.
XX
XX 29-MAR-2000; 2000US-0193053P.
XX
XX 30-MAR-2000; 2000WO-US008439.
XX
XX 04-APR-2000; 2000US-0194449P.
XX
XX 04-APR-2000; 2000US-0194647P.
XX
XX 11-APR-2000; 2000US-0195975P.
XX
XX 11-APR-2000; 2000US-0196000P.
XX
XX 11-APR-2000; 2000US-0196187P.
XX
XX 11-APR-2000; 2000US-0196690P.
XX
XX 11-APR-2000; 2000US-0196820P.
XX
XX 18-APR-2000; 2000US-0198121P.
XX
XX 18-APR-2000; 2000US-0198585P.
XX
XX 25-APR-2000; 2000US-0199397P.
XX
XX 25-APR-2000; 2000US-0199550P.
XX
XX 25-APR-2000; 2000US-0199654P.
XX
XX 03-MAY-2000; 2000US-0201516P.
XX
XX 17-MAY-2000; 2000WO-US013705.
XX
XX 22-MAY-2000; 2000WO-US014042.
XX
XX 30-MAY-2000; 2000WO-US014941.
XX
XX 02-JUN-2000; 2000WO-US015264.
XX
XX 05-JUN-2000; 2000US-0209832P.
XX
XX 28-JUL-2000; 2000WO-US020710.
XX
XX 22-AUG-2000; 2000US-00644848.
XX
XX 24-AUG-2000; 2000WO-US023328.
XX
XX 08-NOV-2000; 2000WO-US030952.
XX
XX 01-DEC-2000; 2000WO-US032678.
XX
XX 20-DEC-2000; 2000WO-US034956.
XX
XX (GETH) GENENTECH INC.
XX
XX Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
XX Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX WPI; 2001-602746/68.

DR N-PSDB; AAS45934.
XX Novel nucleic acids encoding PRO polypeptides, used to diagnose the
PT presence of tumors, such as prostate and breast tumors, in mammals and to
PT screen for modulators of the compounds.
XX
PS Claim 11; Fig 20; 774pp; English.
XX
CC Sequences AAU29024-AAU29328 represent PRO polypeptides of the invention.
CC The PRO polypeptides and their associated nucleic acids can be used to
CC detect the presence of a tumour in a mammal by comparing the level of
CC expression of a PRO polypeptide in a test sample of cells from the animal
CC and a control sample of normal cells, whereby a higher level of
CC expression in the test sample indicates the presence of a tumour in the
CC mammal. Mammals include dogs, cats, cattle, horses, sheep, pigs, goats
CC and rabbits but are preferably human. The polypeptides can be used to
CC stimulate tumour necrosis factor (TNF) alpha release from human blood,
CC when contacted with it. A specific polypeptide can be used to stimulate
CC the proliferation or differentiation of chondrocyte cells. The PRO
CC proteins can be used to determine the presence of tumours and also
CC susceptibility to tumour development, particularly adrenal, lung, colon,
CC breast, prostate, rectal, cervical, or liver tumours, in mammalian
CC subjects. The oligonucleotide probes specific for the PRO nucleic acids
CC can be used for genetic analysis of individuals with genetic disorders
XX
SQ Sequence 382 AA;
Query Match 99.3%; Score 1986; DB 4; Length 382;
Best Local Similarity 97.9%; Pred. No. 4.8e-181;
Matches 374; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
QY 1 MRPGTALQAVLLAVLLVGLRAATGRLLS-----GQVCRGGTORPCYKVIYFHDTSR 52
Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSASDLRLRGQGVCRGGTORPCYKVIYFHDTSR 60
QY 53 RLNFEEAKEACRRDGGQLVSIIESEDEQKLIKFIENLLPSDGFWIGLRREEKQSNSTA 112
Db 61 RLNFEEAKEACRRDGGQLVSIIESEDEQKLIKFIENLLPSDGFWIGLRREEKQSNSTA 120
QY 113 QDLYAWTDGSGISQFENWYVDEPSCGSEVCVVMYHQPSAPAGIGGPFQWMDRCNMKN 172
Db 121 QDLYAWTDGSGISQFENWYVDEPSCGSEVCVVMYHQPSAPAGIGGPFQWMDRCNMKN 180
QY 173 NFICKYSDEKPAVPSREAEGETELTTPVLPEETQEEADAKTKFKESREAAALNAYILIPS 232
Db 181 NFICKYSDEKPAVPSREAEGETELTTPVLPEETQEEADAKTKFKESREAAALNAYILIPS 240
QY 233 IPLLLLLLVTTVVCWWVICRKRKREQPDPSKKQHTIWPSPHQGNSPDLVYNVIRKQSE 292
Db 241 IPLLLLLLVTTVVCWWVICRKRKREQPDPSKKQHTIWPSPHQGNSPDLVYNVIRKQSE 300
QY 293 ADLAETRPDLKNISFRVCSGEATPDDMSCDYNMVAVPSESGFVLVSVEGFTNDIYE 352
Db 301 ADLAETRPDLKNISFRVCSGEATPDDMSCDYNMVAVPSESGFVLVSVEGFTNDIYE 360
QY 353 FSPDQGRSKESGWENEIYG 374
Db 361 FSPDQGRSKESGWENEIYG 382
RESULT 11
ABU58409
ID ABU58409 standard; protein; 382 AA.
XX
AC ABU58409;
XX
XX 15-APR-2003 (first entry)
XX
XX Human PRO polypeptide #10.
KW Human; PRO; cytostatic; tumour; cancer; breast; lung; stomach; liver;
KW dog; cat; cow; horse; sheep; pig; goat; rabbit; ADEPT;
KW antibody-dependent enzyme mediated prodrug therapy.

XX	OS	Homo sapiens.		98US-0088029P
XX	PN	US2003027272-A1.		98US-0088033P
XX	PD	06-FEB-2003.		98US-0088326P
XX	PF	21-JUN-2002; 2002US-00176492.		98US-0088167P
XX	PR	18-SEP-1997; 97US-0059263P.		98US-0088202P.
PR	PR	18-SEP-1997; 97US-0059266P.		98US-0088212P.
PR	PR	17-OCT-1997; 97US-0062250P.		98US-0088217P.
PR	PR	21-OCT-1997; 97US-0063486P.		98US-0088655P.
PR	PR	24-OCT-1997; 97US-0063120P.		98US-0088738P.
PR	PR	24-OCT-1997; 97US-0063121P.		98US-0088740P.
PR	PR	28-OCT-1997; 97US-0063540P.		98US-0088811P.
PR	PR	28-OCT-1997; 97US-0063541P.		98US-0088824P.
PR	PR	28-OCT-1997; 97US-0063544P.		98US-0088825P.
PR	PR	28-OCT-1997; 97US-0063564P.		98US-0088826P.
PR	PR	29-OCT-1997; 97US-0063734P.		98US-0088861P.
PR	PR	31-OCT-1997; 97US-0063870P.		98US-0088863P.
PR	PR	31-OCT-1997; 97US-0064103P.		98US-0088876P.
PR	PR	13-NOV-1997; 97US-0065311P.		98US-0089090P.
PR	PR	21-NOV-1997; 97US-0066120P.		98US-0089105P.
PR	PR	24-NOV-1997; 97US-0066466P.		98US-0089512P.
PR	PR	24-NOV-1997; 97US-0066772P.		98US-0089514P.
PR	PR	11-DEC-1997; 97US-0069335P.		98US-0089538P.
PR	PR	12-DEC-1997; 97US-0069425P.		98US-0089598P.
PR	PR	17-DEC-1997; 97US-0069870P.		98US-0089653P.
PR	PR	18-DEC-1997; 97US-0068017P.		98US-0089908P.
PR	PR	10-MAR-1998; 98US-0077450P.		98US-0089952P.
PR	PR	11-MAR-1998; 98US-0077632P.		98US-0090246P.
PR	PR	11-MAR-1998; 98US-0077649P.		98US-0090252P.
PR	PR	20-MAR-1998; 98US-0078886P.		98US-0090254P.
PR	PR	20-MAR-1998; 98US-0078939P.		98US-0090429P.
PR	PR	27-MAR-1998; 98US-0079664P.		98US-0090435P.
PR	PR	27-MAR-1998; 98US-0079786P.		98US-0090444P.
PR	PR	31-MAR-1998; 98US-0080107P.		98US-0090461P.
PR	PR	31-MAR-1998; 98US-0080194P.		98US-0090535P.
PR	PR	01-APR-1998; 98US-0080327P.		98US-0090540P.
PR	PR	01-APR-1998; 98US-0080333P.		98US-0090678P.
PR	PR	08-APR-1998; 98US-0081049P.		98US-0090688P.
PR	PR	08-APR-1998; 98US-0081070P.		98US-0090690P.
PR	PR	09-APR-1998; 98US-0081195P.		98US-0090694P.
PR	PR	15-APR-1998; 98US-0081838P.		98US-0090695P.
PR	PR	21-APR-1998; 98US-0082568P.		98US-0090696P.
PR	PR	21-APR-1998; 98US-0082569P.		98US-00105413.
PR	PR	22-APR-1998; 98US-0082704P.		98US-0090862P.
PR	PR	22-APR-1998; 98US-0082797P.		98US-0090863P.
PR	PR	28-APR-1998; 98US-0083322P.		98US-0091010P.
PR	PR	29-APR-1998; 98US-0083495P.		98US-0091359P.
PR	PR	29-APR-1998; 98US-0083496P.		98US-0091544P.
PR	PR	29-APR-1998; 98US-0083499P.		98US-0091478P.
PR	PR	29-APR-1998; 98US-0083559P.		98US-0091486P.
PR	PR	05-MAY-1998; 98US-0084366P.		98US-0091626P.
PR	PR	06-MAY-1998; 98US-0084414P.		98US-0091628P.
PR	PR	07-MAY-1998; 98US-0084639P.		98US-0091632P.
PR	PR	07-MAY-1998; 98US-0084640P.		98US-0094006P.
PR	PR	07-MAY-1998; 98US-0084643P.		98US-0095282P.
PR	PR	15-MAY-1998; 98US-0085579P.		98US-0095998P.
PR	PR	15-MAY-1998; 98US-0085580P.		98US-0096012P.
PR	PR	15-MAY-1998; 98US-0085582P.		98US-0096157P.
PR	PR	15-MAY-1998; 98US-0085700P.		98US-0096766P.
PR	PR	18-MAY-1998; 98US-0086023P.		98US-0096867P.
PR	PR	22-MAY-1998; 98US-0086392P.		98US-0096891P.
PR	PR	22-MAY-1998; 98US-0086486P.		98US-0096897P.
PR	PR	28-MAY-1998; 98US-0087098P.		98US-0096949P.
PR	PR	28-MAY-1998; 98US-0087208P.		98US-0096959P.
PR	PR	02-JUN-1		

PR	01-SEP-1998;	98US-0098723P.	
PR	02-SEP-1998;	98US-0098803P.	
PR	02-SEP-1998;	98US-0098821P.	
PR	02-SEP-1998;	98US-0098843P.	
PR	09-SEP-1998;	98US-0099602P.	
PR	10-SEP-1998;	98US-0099741P.	
PR	10-SEP-1998;	98US-0099754P.	
PR	10-SEP-1998;	98US-0099763P.	
PR	10-SEP-1998;	98US-0099812P.	
PR	15-SEP-1998;	98US-0100388P.	
PR	16-SEP-1998;	98US-0100662P.	
PR	16-SEP-1998;	98US-0100664P.	
PR	16-SEP-1998;	98US-0101751P.	
PR	16-SEP-1998;	98WO-US019330.	
PR	17-SEP-1998;	98US-0100683P.	
PR	17-SEP-1998;	98US-0100684P.	
PR	17-SEP-1998;	98US-0100919P.	
PR	17-SEP-1998;	98US-0100930P.	
PR	18-SEP-1998;	98US-0100849P.	
PR	18-SEP-1998;	98US-0101014P.	
PR	18-SEP-1998;	98US-0101068P.	
PR	23-SEP-1998;	98US-0101471P.	
PR	23-SEP-1998;	98US-0101472P.	
PR	23-SEP-1998;	98US-0101475P.	
PR	23-SEP-1998;	98US-0101477P.	
PR	24-SEP-1998;	98US-0101738P.	
PR	24-SEP-1998;	98US-0101739P.	
PR	24-SEP-1998;	98US-0101743P.	
PR	24-SEP-1998;	98US-0101922P.	
PR	25-SEP-1998;	98US-0101786P.	
PR	29-SEP-1998;	98US-0102207P.	
PR	29-SEP-1998;	98US-0102240P.	
PR	29-SEP-1998;	98US-0102330P.	
PR	29-SEP-1998;	98US-0102331P.	
PR	30-SEP-1998;	98US-0102487P.	
PR	30-SEP-1998;	98US-0102570P.	
PR	30-SEP-1998;	98US-0102571P.	
PR	01-OCT-1998;	98US-0102684P.	
PR	01-OCT-1998;	98US-0102687P.	
PR	02-OCT-1998;	98US-0102965P.	
PR	06-OCT-1998;	98US-0103258P.	
PR	06-OCT-1998;	98US-0103449P.	
PR	07-OCT-1998;	98US-00168978.	
Query Match 99.3%; Score 1986; DB 6; Length 382;			
Best Local Similarity 97.9%; Pred. No. 4.8e-181;			
Matches 374; Conservative 0; Mismatches 0; Indels 8; Gaps 1;			
QY	1	MRPGTALQAVLLAVLLVGLRAATGRLLS-----GQPVCRGGTQRPCKVIYFHDTSR	52
Db	1	MRPGTALQAVLLAVLLVGLRAATGRLLSASDLDRGGQPVCRGGTQRPCKVIYFHDTSR	60
QY	53	RLNFEEAKEACRRDGGQLVSIESTEDEQKLEKFIENLLPSDGDGFWIGLRRREEKQSNSTA	112
Db	61	RLNFEEAKEACRRDGGQLVSIESTEDEQKLEKFIENLLPSDGDGFWIGLRRREEKQSNSTA	120
QY	113	QODLYAWTDGSIQFRNWWYVDEPSCGSEVCVVMYHQPAPAGIGGPFYFQWDDRCNMKN	172
Db	121	QODLYAWTDGSIQFRNWWYVDEPSCGSEVCVVMYHQPAPAGIGGPFYFQWDDRCNMKN	180
QY	173	NFICKYSDEKPAVPSREAEGETELTTPVLPETQEEADAKTTFKESREAAALNLAYILIPS	232
Db	181	NFICKYSDEKPAVPSREAEGETELTTPVLPETQEEADAKTTFKESREAAALNLAYILIPS	240
QY	233	IPLLLLLVVTVVVCWVICRKRKRQEPDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSE	292
Db	241	IPLLLLLVVTVVVCWVICRKRKRQEPDPSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSE	300
QY	293	ADLAETRPDLKNI SFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYE	352
Db	301	ADLAETRPDLKNI SFRVCSGEATPDDMSCDYDNMAVNPSESGFVTLVSVESGFVTNDIYE	360
QY	353	FSPDQMGRSKESGWVENEIYGY	374

Db	361	FSPDQMGRSKESGWVENEIYGY	382
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ABU71613			
ID	ABU71613	standard; protein; 382 AA.	
XX	AC	ABU71613;	
XX	DT	16-JUN-2003 (first entry)	
XX	DE	Human PRO polypeptide #24.	
XX	KW	Human; PRO; secreted polypeptide; transmembrane polypeptide;	
KW		pathological disorder; cardiac insufficiency disorder; protein secretion;	
KW		pancreas; diabetes; gastrointestinal mucosa; mucosal lesion; psoriasis;	
KW		skin disease; keratinocyte differentiation; epithelial cancer; tumour;	
KW		lung squamous cell carcinoma; epidermoid carcinoma; vulva; glioma;	
KW		cytostatic; cardiant; endocrine; antidiabetic; gastrointestinal;	
KW		antiulcer; dermatological; vulnerary.	
XX	OS	Homo sapiens.	
XX	PN	US2002146709-A1.	
XX	PD	10-OCT-2002.	
XX	PF	18-JUL-2001; 2001US-00909088.	
XX	PR	17-SEP-1997; 97US-0059113P.	
PR		17-SEP-1997; 97US-0059115P.	
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PR		17-SEP-1997; 97US-0059119P.	
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PR		18-SEP-1997; 97US-0059263P.	
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RESULT 14	
ABU84272	
ID	ABU84272 standard; protein; 382 AA.
XX	
AC	ABU84272;
XX	
DT	02-AUG-2003 (first entry)
XX	
DE	Human secreted/transmembrane protein (PRO) #10.
XX	
KW	Human; secreted and transmembrane protein; PRO; TNF-alpha;
KW	tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW	tissue typing.
XX	
OS	Homo sapiens.
XX	
PN	US2003032112-A1.
XX	
PD	13-FEB-2003.
XX	
PF	21-JUN-2002; 2002US-00176756.
XX	
PR	18-SEP-1997; 97US-0059263P.
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PR	24-JUN-1998;	98US-0090444P.	PR	29-SEP-1998;	98US-0102240P.
PR	24-JUN-1998;	98US-0090461P.	PR	29-SEP-1998;	98US-0102330P.
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PR	25-JUN-1998;	98US-0090678P.	PR	30-SEP-1998;	98US-0102571P.
PR	25-JUN-1998;	98US-0090688P.	PR	01-OCT-1998;	98US-0102684P.
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PR	02-SEP-1998;	98US-0098803P.			
PR	02-SEP-1998;	98US-0098821P.			
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PR	16-SEP-1998;	98US-0100662P.			
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Query Match

Best Local Similarity

Matches

Conservative

Mismatches

Indels

Gaps

Length

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MRPGTALQAVLLAVLLVGLRAATGRLLS

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52

1

MRPGTALQAVLLAVLLVGLRAATGRLLS

ASDLRLGGQPVCRGGTQPCYKVIYFHDTSR

60

53

RLNFEEAKEACRRDGGQLVSI

SEDEQKLI

FIENLLPSD

GDFWIGLRRREEKQSNSTA

112

61

RLNFEEAKEACRRDGGQLVSI

SEDEQKLI

FIENLLPSD

GDFWIGLRRREEKQSNSTA

120

113

QDLYAWTDGSI

QFRNWIYVDEP

SCGSEVCVVMYH

QPSAPAGIGG

PFQWNDRCNMKN

172

121

QDLYAWTDGSI

QFRNWIYVDEP

SCGSEVCVVMYH

QPSAPAGIGG

PFQWNDRCNMKN

180

173

NFICKYSDEKPAVPSREAE

GEETELTTPVL

PEETQBEDAKKT

FKESREAAALNLAYILIPS

232

181

NFICKYSDEKPAVPSREAE

GEETELTTPVL

PEETQBEDAKKT

FKESREAAALNLAYILIPS

240

233

IPLLLLLVTTVVCWWVICR

KRKREQDPST

TKKQHTIWPS

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292

241

IPLLLLLVTTVVCWWVICR

KRKREQDPST

TKKQHTIWPS

PHQNSPDLEVYNVIRKQSE

300

293

ADLAETRPDLKNI

SFRVCSGEAT

PPDDMSCDYDN

MAVNPSESGFVTLVSVESGFVTNDIYE

352

301

ADLAETRPDLKNI

SFRVCSGEAT

PPDDMSCDYDN

MAVNPSESGFVTLVSVESGFVTNDIYE

360

353

FSPDQMGRSKESG

WVENEIYG

374

361

FSPDQMGRSKESG

WVENEIYG

382

RESULT 15

ABR66146

ID ABR66146 standard; protein; 382 AA.

XX

AC ABR66146;

XX

DT 05-AUG-2003 (first entry)

XX

DE Human secreted polypeptide PRO234, SEQ ID NO:20.
XX
KW Human; PRO; secreted protein; transmembrane protein;
KW extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
KW chondrocyte; proliferation; differentiation; cartilage disorder;
KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
KW liver; drug screening; transgenic animal; genetic analysis;
KW antiarthritic; vulnery; gene therapy.
XX
OS Homo sapiens.
XX
FN US2003027278-A1.
XX
PD 06-FEB-2003.
XX
PF 21-JUN-2002; 2002US-00176987.
XX
PR 18-SEP-1997; 97US-0059263P.
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Best Local Similarity 97.9%; Pred. NO. 4.8e-181;
Matches 374; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
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Db 1 MRPGTALQAVLLAVLLVGLRAATGRLLSASDLRLGGQPVCRGGTQRPCKYKVIYFHDTSR 60
QY 53 RLNFEEAKEACRRDGGQLVSI ESEDEQKLI EKFIENLLPSDGFWIGLRRREEKQSNSTA 112
Db 61 RLNFEEAKEACRRDGGQLVSI ESEDEQKLI EKFIENLLPSDGFWIGLRRREEKQSNSTA 120
QY 113 QODLYAWTDGSI SFRNWNVYDEPSCGSEVCVMYHQPSAPAGIGGYPYMFQWDDRCNMKN 172
Db 121 QODLYAWTDGSI SFRNWNVYDEPSCGSEVCVMYHQPSAPAGIGGYPYMFQWDDRCNMKN 180
QY 173 NFICKYSDEKPAVPSREAEGETELTTPVLPEETQEEDAKKTFKESREAAALNLAYILIPS 232
Db 181 NFICKYSDEKPAVPSREAEGETELTTPVLPEETQEEDAKKTFKESREAAALNLAYILIPS 240
QY 233 IPLLLLLLVTTVVVCWVWICRKRKREQDPSTKKQHTIWPSPHQNSPDLEVINVIRKQSE 292
Db 241 IPLLLLLLVTTVVVCWVWICRKRKREQDPSTKKQHTIWPSPHQNSPDLEVINVIRKQSE 300

QY 293 ADLAETRPDLKNISFRVCSGSEATPDDMSCDYDNMAVNPSESGFVTLVSVEGFTNDIYE 352
Db 301 ADLAETRPDLKNISFRVCSGSEATPDDMSCDYDNMAVNPSESGFVTLVSVEGFTNDIYE 360
QY 353 FSPDQMGGRSKESGWENEIYGY 374
Db 361 FSPDQMGGRSKESGWENEIYGY 382

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Run on: September 9, 2004, 22:56:51 ; Search time 90.7224 Seconds
(without alignments)
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Searched: 1335176 seqs, 320689617 residues

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Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	1106	100.0	206	9	US-09-887-855-5
2	1106	100.0	374	9	US-09-887-855-2
3	1106	100.0	374	14	US-10-149-819-15
4	1106	100.0	374	15	US-10-094-749-2090
5	1106	100.0	374	15	US-10-264-237-2579
6	1106	100.0	374	16	US-10-648-593-148
7	1106	100.0	387	12	US-10-296-115-1311
8	1102	99.6	374	15	US-10-094-749-2142
9	1096	99.1	374	12	US-10-351-334-166
10	1092	98.7	382	9	US-09-909-320-137
11	1092	98.7	382	9	US-09-909-088B-137
12	1092	98.7	382	9	US-09-905-291A-137
13	1092	98.7	382	9	US-09-902-853-137
14	1092	98.7	382	9	US-09-907-824-137
15	1092	98.7	382	9	US-09-907-841-137

16	1092	98.7	382	10	US-09-904-011-137	Sequence 137, App
17	1092	98.7	382	10	US-09-906-742-137	Sequence 137, App
18	1092	98.7	382	10	US-09-906-838-137	Sequence 137, App
19	1092	98.7	382	10	US-09-907-613-137	Sequence 137, App
20	1092	98.7	382	10	US-09-907-942-137	Sequence 137, App
21	1092	98.7	382	10	US-09-904-859-137	Sequence 137, App
22	1092	98.7	382	10	US-09-909-204-137	Sequence 137, App
23	1092	98.7	382	10	US-09-904-820-137	Sequence 137, App
24	1092	98.7	382	10	US-09-904-786-137	Sequence 137, App
25	1092	98.7	382	10	US-09-906-646-137	Sequence 137, App
26	1092	98.7	382	10	US-09-906-700-137	Sequence 137, App
27	1092	98.7	382	10	US-09-903-786-137	Sequence 137, App
28	1092	98.7	382	10	US-09-902-903-137	Sequence 137, App
29	1092	98.7	382	10	US-09-903-749A-137	Sequence 137, App
30	1092	98.7	382	10	US-09-904-119-137	Sequence 137, App
31	1092	98.7	382	10	US-09-904-956-137	Sequence 137, App
32	1092	98.7	382	10	US-09-902-736-137	Sequence 137, App
33	1092	98.7	382	10	US-09-907-794-137	Sequence 137, App
34	1092	98.7	382	10	US-09-903-943-137	Sequence 137, App
35	1092	98.7	382	10	US-09-904-462-137	Sequence 137, App
36	1092	98.7	382	10	US-09-907-925-137	Sequence 137, App
37	1092	98.7	382	10	US-09-902-692-137	Sequence 137, App
38	1092	98.7	382	10	US-09-903-520-137	Sequence 137, App
39	1092	98.7	382	10	US-09-905-056-137	Sequence 137, App
40	1092	98.7	382	10	US-09-909-064-137	Sequence 137, App
41	1092	98.7	382	10	US-09-904-553-137	Sequence 137, App
42	1092	98.7	382	10	US-09-905-381-137	Sequence 137, App
43	1092	98.7	382	10	US-09-905-088-137	Sequence 137, App
44	1092	98.7	382	10	US-09-907-575-137	Sequence 137, App
45	1092	98.7	382	10	US-09-905-075-137	Sequence 137, App

ALIGNMENTS

RESULT 1

US-09-887-855-5

; Sequence 5, Application US/09887855

; Patent No. US20020058310A1

; GENERAL INFORMATION:

; APPLICANT: Immunex Corporation

; APPLICANT: Anderson, Dirk M

; TITLE OF INVENTION: LECTIN SS3939 DNA AND POLYPEPTIDES

; FILE REFERENCE: 2883-US

; CURRENT APPLICATION NUMBER: US/09/887,855

; CURRENT FILING DATE: 2001-06-22

; NUMBER OF SEQ ID NOS: 9

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 5

; LENGTH: 206

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-887-855-5

Query Match 100.0%; Score 1106; DB 9; Length 206;
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Matches 204; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	GRLLSGQVCRGGTQPCYKVIYFHDTSRLNFEFAKEACRRDGGQLVSI	DEQKLI	60
Db	3	GRLLSGQVCRGGTQPCYKVIYFHDTSRLNFEFAKEACRRDGGQLVSI	DEQKLI	62
QY	61	KFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSI	SQFRNWWYVDEPSCGSEVCV	120
Db	63	KFIENLLPSDGFWIGLRRREKQSNSTACQDLYAWTDGSI	SQFRNWWYVDEPSCGSEVCV	122
QY	121	VMYHQPSAPAGIGGPMFQWDDRCNMKNFICKYSDEKPAVPSREAEGBETELTTPVLP	180	
Db	123	VMYHQPSAPAGIGGPMFQWDDRCNMKNFICKYSDEKPAVPSREAEGBETELTTPVLP	182	
QY	181	EETQEDAKTKFKESREALNLAY	204	
Db	183	EETQEDAKTKFKESREALNLAY	206	

RESULT 2
US-09-887-855-2
; Sequence 2, Application US/09887855
; Patent No. US20020058310A1
; GENERAL INFORMATION:
; APPLICANT: Immunex Corporation
; APPLICANT: Anderson, Dirk M
; TITLE OF INVENTION: LECTIN SS3939 DNA AND POLYPEPTIDES
; FILE REFERENCE: 2883-US
; CURRENT APPLICATION NUMBER: US/09/887,855
; CURRENT FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 2
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-887-855-2

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Best Local Similarity 100.0%; Pred. No. 2.9e-103;
Matches 204; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GRLLSGQPVCRCGGTQPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSISEDEQKLI 60
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QY 61 KFIENLLPSDGDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEVCV 120
Db 84 KFIENLLPSDGDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEVCV 143

QY 121 VMYHQPAPAGIGGYPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGETELTTPVLP 180
Db 144 VMYHQPAPAGIGGYPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGETELTTPVLP 203

QY 181 BETQEDAKTKTFKESREAAALNLAY 204
Db 204 BETQEDAKTKTFKESREAAALNLAY 227

RESULT 3
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; Sequence 15, Application US/10149819
; Publication No. US20030044913A1
; GENERAL INFORMATION:
; APPLICANT: INCYTE GENOMICS, INC.
; APPLICANT: YUE, Henry
; APPLICANT: AZIMZAI, Yalda
; APPLICANT: TANG, Y. Tom
; APPLICANT: PATTERSON, Chandra
; APPLICANT: BAUGHN, Mariah R.
; APPLICANT: LU, Dyung Aina M.
; APPLICANT: SHAH, Purvi
; APPLICANT: LAL, Preeti
; APPLICANT: AU-YOUNG, Janice
; APPLICANT: BURFORD, Neil
; TITLE OF INVENTION: EXTRACELLULAR MATRIX AND CELL ADHESION MOLECULES
; FILE REFERENCE: PF-0760 PCT
; CURRENT APPLICATION NUMBER: US/10/149,819
; CURRENT FILING DATE: 2002-06-10
; PRIOR APPLICATION NUMBER: 60/172,852; 60/172,354
; PRIOR FILING DATE: 1999-12-10; 1999-12-16
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: PERL Program
; SEQ ID NO 15
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20030044913A1 3143411CD1

US-10-149-819-15

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Best Local Similarity 100.0%; Pred. No. 2.9e-103;
Matches 204; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 24 GRLLSGQPVCRCGGTQPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSISEDEQKLI 83

QY 61 KFIENLLPSDGDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEVCV 120
Db 84 KFIENLLPSDGDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEVCV 143

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Db 144 VMYHQPAPAGIGGYPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGETELTTPVLP 203

QY 181 BETQEDAKTKTFKESREAAALNLAY 204
Db 204 BETQEDAKTKTFKESREAAALNLAY 227

RESULT 4
US-10-094-749-2090
; Sequence 2090, Application US/10094749
; Publication No. US20030219741A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOTYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: NOVEL FULL-LENGTH CDNA
; FILE REFERENCE: 084335/0160
; CURRENT APPLICATION NUMBER: US/10/094,749
; CURRENT FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 60/350,435
; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: JP 2001-328381
; PRIOR FILING DATE: 2001-09-14
; NUMBER OF SEQ ID NOS: 3381
; SOFTWARE: Patentin ver. 2.1
; SEQ ID NO 2090
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-094-749-2090

Query Match 100.0%; Score 1106; DB 15; Length 374;
Best Local Similarity 100.0%; Pred. No. 2.9e-103;
Matches 204; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GRLLSGQPVCRCGGTQPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSISEDEQKLI 60
Db 24 GRLLSGQPVCRCGGTQPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSISEDEQKLI 83

QY 61 KFIENLLPSDGDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEVCV 120
Db 84 KFIENLLPSDGDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEVCV 143

QY 121 VMYHOPSAPAGIGGPFYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGEETELTTPVLP 180
Db 144 VMYHOPSAPAGIGGPFYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGEETELTTPVLP 203
QY 181 EETQEDAKKTFKESREAAALNLAY 204
Db 204 EETQEDAKKTFKESREAAALNLAY 227

RESULT 5
US-10-264-237-2579
; Sequence 2579, Application US/10264237
; Publication No. US20040009491A1
; GENERAL INFORMATION:
; APPLICANT: Birse et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PA131P1
; CURRENT APPLICATION NUMBER: US/10/264,237
; CURRENT FILING DATE: 2002-10-04
; PRIOR APPLICATION NUMBER: PCT/US01/16450
; PRIOR FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: US 60/205,515
; PRIOR FILING DATE: 2000-05-19
; NUMBER OF SEQ ID NOS: 2876
; SOFTWARE: PatentIn Ver. 3.1
; SEQ ID NO 2579
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-264-237-2579

Query Match 100.0%; Score 1106; DB 15; Length 374;
Best Local Similarity 100.0%; Pred. No. 2.9e-103;
Matches 204; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GRLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI ESEDEQKLI E 60
Db 24 GRLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI ESEDEQKLI E 83
QY 61 KFIENLLPSDGDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEVCV 120
Db 84 KFIENLLPSDGDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEVCV 143
QY 121 VMYHOPSAPAGIGGPFYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGEETELTTPVLP 180
Db 144 VMYHOPSAPAGIGGPFYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGEETELTTPVLP 203
QY 181 EETQEDAKKTFKESREAAALNLAY 204
Db 204 EETQEDAKKTFKESREAAALNLAY 227

RESULT 6
US-10-648-593-148
; Sequence 148, Application US/10648593
; Publication No. US20040106132A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: IDENTIFICATION OF GENES FOR PREDICTING ACTIVITY OF COMPOUNDS THAT
; INTERACT WITH AND/OR MODULATE PROTEIN TYROSINE KINASES AND/OR
; TITLE OF INVENTION: PROTEIN TYROSINE KINASE PATHWAYS IN BREAST CELLS
; FILE REFERENCE: D0273 NP
; CURRENT APPLICATION NUMBER: US/10/648,593
; CURRENT FILING DATE: 2003-08-26
; PRIOR APPLICATION NUMBER: 60/406,385
; PRIOR FILING DATE: 2002-08-27
; NUMBER OF SEQ ID NOS: 557
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 148
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens

US-10-648-593-148

Query Match 100.0%; Score 1106; DB 16; Length 374;
Best Local Similarity 100.0%; Pred. No. 2.9e-103;
Matches 204; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GRLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI ESEDEQKLI E 60
Db 24 GRLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI ESEDEQKLI E 83
QY 61 KFIENLLPSDGDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEVCV 120
Db 84 KFIENLLPSDGDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEVCV 143
QY 121 VMYHOPSAPAGIGGPFYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGEETELTTPVLP 180
Db 144 VMYHOPSAPAGIGGPFYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGEETELTTPVLP 203
QY 181 EETQEDAKKTFKESREAAALNLAY 204
Db 204 EETQEDAKKTFKESREAAALNLAY 227

RESULT 7
US-10-296-115-1311
; Sequence 1311, Application US/10296115
; Publication No. US20040053248A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq Inc
; TITLE OF INVENTION: No. US20040053248a1el Nucleic Acids and Polypeptides
; FILE REFERENCE: 784PCT
; CURRENT APPLICATION NUMBER: US/10/296,115
; CURRENT FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: US09/488,725
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: US09/552,317
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 1478
; SEQ ID NO 1311
; LENGTH: 387
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-296-115-1311

Query Match 100.0%; Score 1106; DB 12; Length 387;
Best Local Similarity 100.0%; Pred. No. 3e-103;
Matches 204; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GRLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI ESEDEQKLI E 60
Db 37 GRLLSGQPVCRGGTQPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI ESEDEQKLI E 96
QY 61 KFIENLLPSDGDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEVCV 120
Db 97 KFIENLLPSDGDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEVCV 156
QY 121 VMYHOPSAPAGIGGPFYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGEETELTTPVLP 180
Db 157 VMYHOPSAPAGIGGPFYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGEETELTTPVLP 216
QY 181 EETQEDAKKTFKESREAAALNLAY 204
Db 217 EETQEDAKKTFKESREAAALNLAY 240

RESULT 8
US-10-094-749-2142
; Sequence 2142, Application US/10094749
; Publication No. US20030219741A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI

APPLICANT: WAKAMATSU, AI
APPLICANT: SATO, HIROYUKI
APPLICANT: ISHII, SHIZUKO
APPLICANT: YAMAMOTO, JUN-ICHI
APPLICANT: ISONO, YUUKO
APPLICANT: HIO, YURI
APPLICANT: OTSUKA, KAORU
APPLICANT: NAGAI, KEIICHI
APPLICANT: IRIE, RYOTARO
APPLICANT: TAMECHIKA, ICHIRO
APPLICANT: SEKI, NAOHICO
APPLICANT: YOSHIKAWA, TSUTOMU
APPLICANT: OTSUKA, MOTOYUKI
APPLICANT: NAGAHARI, KENJI
APPLICANT: MASUHO, YASUHIKO
TITLE OF INVENTION: NOVEL FULL-LENGTH CDNA
FILE REFERENCE: 084335/0160
CURRENT APPLICATION NUMBER: US/10/094,749
CURRENT FILING DATE: 2002-03-12
PRIOR APPLICATION NUMBER: 60/350,435
PRIOR FILING DATE: 2002-01-24
PRIOR APPLICATION NUMBER: JP 2001-328381
PRIOR FILING DATE: 2001-09-14
NUMBER OF SEQ ID NOS: 3381
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2142
LENGTH: 374
TYPE: PRT
ORGANISM: Homo sapiens
US-10-094-749-2142

Query Match 99.6%; Score 1102; DB 15; Length 374;
Best Local Similarity 99.5%; Pred. No. 7.4e-103;
Matches 203; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 GRLLSGQPVCRCGGTQPCYKVIYFHDTSRRLNFEAEKACRRDGGQLVSISEDEQKLE 60
DB 24 GRLLSGQPVCRCGGTQPCYKVIYFHDTSRRLNFEAEKACRRDGGQLVSISEDEQKLE 83
QY 61 KFIENLLPSDGDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEVCV 120
DB 84 KFIENLLPSDGDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEVCV 143
QY 121 VMYHQPAPAGIGGYPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGETELTTPVLP 180
DB 144 VMYHQPAPAGIGGYPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGETELTTPVLP 203
QY 181 EETQBEDAKTKFKESREAAALNLAY 204
DB 204 EETQBEDTKTKFKESREAAALNLAY 227

RESULT 9
US-10-351-334-166
Sequence 166, Application US/10351334
Publication No. US20040034196A1
GENERAL INFORMATION:
APPLICANT: Komatsoulis et al
TITLE OF INVENTION: 98 Human Secreted Proteins
FILE REFERENCE: P2031P2
CURRENT APPLICATION NUMBER: US/10/351,334
CURRENT FILING DATE: 2003-01-27
PRIOR APPLICATION NUMBER: 60/350,898
PRIOR FILING DATE: 2002-01-25
PRIOR APPLICATION NUMBER: 09/489,847
PRIOR FILING DATE: 2000-01-24
PRIOR APPLICATION NUMBER: PCT/US99/17130
PRIOR FILING DATE: 1999-07-29
PRIOR APPLICATION NUMBER: 60/094,657
PRIOR FILING DATE: 1998-07-30
PRIOR APPLICATION NUMBER: 60/095,486
PRIOR FILING DATE: 1998-08-05
PRIOR APPLICATION NUMBER: 60/096,319

PRIOR FILING DATE: 1998-08-12
PRIOR APPLICATION NUMBER: 60/095,454
PRIOR FILING DATE: 1998-08-06
PRIOR APPLICATION NUMBER: 60/095,455
PRIOR FILING DATE: 1998-08-06
NUMBER OF SEQ ID NOS: 376
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 166
LENGTH: 374
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: SITE
LOCATION: (84)
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
NAME/KEY: SITE
LOCATION: (112)
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-10-351-334-166
Query Match 99.1%; Score 1096; DB 12; Length 374;
Best Local Similarity 99.0%; Pred. No. 3e-102;
Matches 202; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 GRLLSGQPVCRCGGTQPCYKVIYFHDTSRRLNFEAEKACRRDGGQLVSISEDEQKLE 60
DB 24 GRLLSGQPVCRCGGTQPCYKVIYFHDTSRRLNFEAEKACRRDGGQLVSISEDEQKLE 83
QY 61 KFIENLLPSDGDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEVCV 120
DB 84 KFIENLLPSDGDGFWIGLRRREKQSNSTACQDLYAWTDGSIQFRNWWYVDEPSCGSEVCV 143
QY 121 VMYHQPAPAGIGGYPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGETELTTPVLP 180
DB 144 VMYHQPAPAGIGGYPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGETELTTPVLP 203
QY 181 EETQBEDAKTKFKESREAAALNLAY 204
DB 204 EETQBEDAKTKFKESREAAALNLAY 227

RESULT 10
US-09-909-320-137
Sequence 137, Application US/09909320
Patent No. US20020132240A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Baton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Pong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/909,320
; CURRENT FILING DATE: 2002-01-04
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-909-320-137

Query Match 98.7%; Score 1092; DB 9; Length 382;
Best Local Similarity 96.2%; Pred. No. 7.8e-102;
Matches 204; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

Qy 1 GRLLS-----GQVCRGGTQPCYKVIYFHDTSRLNFEAEKACRRDGGQLVSIES 52
||||| |||||||
Db 24 GRLLSASDLDLRGGQPCVCRGGTQPCYKVIYFHDTSRLNFEAEKACRRDGGQLVSIES 83

Qy 53 EDEQKLIKFIEIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQSFNYYVDEP 112
||||| |||||||
Db 84 EDEQKLIKFIEIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQSFNYYVDEP 143

Qy 113 SCGSEVCVMYHQPSAPAGIGGPFYQWDDRCNNKNNPICKYSDEKPAVPSREAEGET 172
||||| |||||||
Db 144 SCGSEVCVMYHQPSAPAGIGGPFYQWDDRCNNKNNPICKYSDEKPAVPSREAEGET 203

Qy 173 ELTTPVLPEETQEEADAKKTFKESREAAALNLAY 204
||||| |||||||
Db 204 ELTTPVLPEETQEEADAKKTFKESREAAALNLAY 235

RESULT 11
US-09-909-088B-137
; Sequence 137, Application US/09909088B
; Patent No. US20020146709A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi

; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/909,088B
; CURRENT FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-909-088B-137

Query Match 98.7%; Score 1092; DB 9; Length 382;
Best Local Similarity 96.2%; Pred. No. 7.8e-102;
Matches 204; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY	1	GRLLS-----GQVRCRGGTQRPCYKVIYFHDT	SRRLNFEEAKEACRRDGGQLVSI	ES	52
Db	24	GRLLSASDLRLGGQPVCRG	TQRPCYKVIYFHDT	SRRLNFEEAKEACRRDGGQLVSI	ES
QY	53	EDEQKLIBFIENLLPSDGD	FWIGLRREEKQSNSTACQDLYAWTDG	SI	112
Db	84	EDEQKLIBFIENLLPSDGD	FWIGLRREEKQSNSTACQDLYAWTDG	SI	143
QY	113	SCGSEVCVMYHQPSAPAGIGG	PPYMFQWDDRCNMKNFICKYSDEKPAVPSREAE	GEET	172
Db	144	SCGSEVCVMYHQPSAPAGIGG	PPYMFQWDDRCNMKNFICKYSDEKPAVPSREAE	GEET	203
QY	173	ELTTPVLPEETQEEDAK	TKFESREAA	NLAY	204
Db	204	ELTTPVLPEETQEEDAK	TKFESREAA	NLAY	235

RESULT 12

US-09-905-291A-137
; Sequence 137, Application US/09905291A

; sequence 13, Application
; Patent No. US20020160374A1
; GENERAL INFORMATION:

; GENERAL INFORMATION:
 ; APPLICANT: Genentech, Inc.
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnovers, Luc
 ; APPLICANT: Eaton, Dan L.
 ; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, A.
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, Christopher J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Hillan, Kenneth, J.
 ; APPLICANT: Khlavin, Ivar J.
 ; APPLICANT: Mather, Jennie P.

/ APPLICANT: Mutter, James I.
 / APPLICANT: Pan, James
 / APPLICANT: Paoni, Nicholas F.
 / APPLICANT: ROY, Margaret Ann
 / APPLICANT: Stewart, Timothy A.
 / APPLICANT: Tumas, Daniel
 / APPLICANT: Williams, P. Mickey
 / APPLICANT: Wood, William, I.
 / TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 / TITLE OF INVENTION: Acids Encoding the Same

```

; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-905-291A-137

```

RESULT 13

US-09-902-853-137

US-09-902-033-137 ; Sequence 137, Application US/09902853
: Publication No. US20020192659A1

; PUBLICATION NO: US20
: GENERAL INFORMATION:
: GENERAL INFORMATION:

1	GENERAL INFORMATION:
2	APPLICANT: Genentech, Inc.
3	APPLICANT: Ashkenazi, Avi
4	APPLICANT: Botstein, David
5	APPLICANT: Desnoyers, Luc
6	APPLICANT: Eaton, Dan L.
7	APPLICANT: Ferrara, Napoleone
8	APPLICANT: Filvaroff, Ellen
9	APPLICANT: Fong, Sherman
10	APPLICANT: Gao, Wei-Qiang
11	APPLICANT: Gerber, Hanspeter
12	APPLICANT: Gerritsen, Mary E.
13	APPLICANT: Goddard, A.
14	APPLICANT: Godowski, Paul J.
15	APPLICANT: Grimaldi, Christopher J.
16	APPLICANT: Gurney, Austin L.
17	APPLICANT: Hillan, Kenneth, J.
18	APPLICANT: Kljavin, Ivar J.
19	APPLICANT: Mather, Jennie P.
20	APPLICANT: Pan, James
21	APPLICANT: Paoni, Nicholas F.
22	APPLICANT: Roy, Margaret Ann
23	APPLICANT: Stewart, Timothy A.
24	APPLICANT: Tumas, Daniel
25	APPLICANT: Williams, P. Mickey
26	APPLICANT: Wood, William, I.
27	TITLE OF INVENTION: Secreted and Tra
28	TITLE OF INVENTION: Acids Encoding

FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/902,853
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: US/09/665,350
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 137
LENGTH: 382
TYPE: PRT
ORGANISM: Homo Sapien
US-09-902-853-137

Query Match 98.7%; Score 1092; DB 9; Length 382;
Best Local Similarity 96.2%; Pred. No. 7.8e-102;
Matches 204; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
QY 1 GRLLS-----GQVCRGGTQPCYKVIYFHDTSRLNPFEEAKEACRRDGGQLVSIES 52
Db 24 GRLLSASDLDRGGQPCVCRGGTQPCYKVIYFHDTSRLNPFEEAKEACRRDGGQLVSIES 83
QY 53 EDEQKLEKFIENLLPSDGFWGLRRREEKQSNSTACODLYAWTDGSIQFRNWKYVDEP 112
Db 84 EDEQKLEKFIENLLPSDGFWGLRRREEKQSNSTACODLYAWTDGSIQFRNWKYVDEP 143
QY 113 SCGSEVCVMYHQPAPAGIGGPFYMFQWDDRCNMKNPFICKYSDEKPAVPSREAEGET 172
Db 144 SCGSEVCVMYHQPAPAGIGGPFYMFQWDDRCNMKNPFICKYSDEKPAVPSREAEGET 203
QY 173 ELTTPVLPEETOEDAKKTFKESREAAALNLAY 204
Db 204 ELTTPVLPEETOEDAKKTFKESREAAALNLAY 235

RESULT 14
US-09-907-824-137
Sequence 137, Application US/09907824
Publication No. US20020197671A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/907,824
CURRENT FILING DATE: 2001-07-17
PRIOR APPLICATION NUMBER: 09/665,350
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 137
LENGTH: 382
TYPE: PRT
ORGANISM: Homo Sapien
US-09-907-824-137

Query Match 98.7%; Score 1092; DB 9; Length 382;
Best Local Similarity 96.2%; Pred. No. 7.8e-102;
Matches 204; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

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QY 1 GRLLS-----GQVCRGGTQPCYKVIYFHDTSRRLNFEFEEAKEACRRDGGQLVSIES 52
    |||||
Db 24 GRLLSASDLRLGGQPVCRGGTQPCYKVIYFHDTSRRLNFEFEEAKEACRRDGGQLVSIES 83
    |||||
QY 53 EDEQKLIKFIENLLPSDGFWIGLRRRREKQSNSTACQDLYAWTDGSIQFRNWWYVDEP 112
    |||||
Db 84 EDEQKLIKFIENLLPSDGFWIGLRRRREKQSNSTACQDLYAWTDGSIQFRNWWYVDEP 143
    |||||
QY 113 SCGSEVCVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGEET 172
    |||||
Db 144 SCGSEVCVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGEET 203
    |||||
QY 173 ELTTPVLPEETQEDAKKTFKESREAAALNLAY 204
    |||||
Db 204 ELTTPVLPEETQEDAKKTFKESREAAALNLAY 235
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RESULT 15

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US-09-907-841-137
; Sequence 137, Application US/09907841
; Publication No. US20020198366A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Pacni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,841
; CURRENT FILING DATE: 2001-11-20
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
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; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-907-841-137
Query Match 98.7%; Score 1092; DB 9; Length 382;
Best Local Similarity 96.2%; Pred. No. 7.8e-102;
Matches 204; Conservative 0; Mismatches 0; Indels 8; Gaps 1;
QY 1 GRLLS-----GQVCRGGTQPCYKVIYFHDTSRRLNFEFEEAKEACRRDGGQLVSIES 52
    |||||
Db 24 GRLLSASDLRLGGQPVCRGGTQPCYKVIYFHDTSRRLNFEFEEAKEACRRDGGQLVSIES 83
    |||||
QY 53 EDEQKLIKFIENLLPSDGFWIGLRRRREKQSNSTACQDLYAWTDGSIQFRNWWYVDEP 112
    |||||
Db 84 EDEQKLIKFIENLLPSDGFWIGLRRRREKQSNSTACQDLYAWTDGSIQFRNWWYVDEP 143
    |||||
QY 113 SCGSEVCVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGEET 172
    |||||
Db 144 SCGSEVCVMYHQPSAPAGIGGPPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGEET 203
    |||||
QY 173 ELTTPVLPEETQEDAKKTFKESREAAALNLAY 204
    |||||
Db 204 ELTTPVLPEETQEDAKKTFKESREAAALNLAY 235
    |||||
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RESULT 16

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US-09-904-011-137
; Sequence 137, Application US/09904011
; Publication No. US20030003530A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,011
; CURRENT FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
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; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-09-904-011-137

Query Match      98.7%; Score 1092; DB 10; Length 382;
Best Local Similarity 96.2%; Pred. No. 7.8e-102;
Matches 204; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 GRLLS-----GQPVCRGGTQPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSIES 52
Db 24 GRLLSASDLRLGGQPVCRGGTQPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSIES 83

QY 53 EDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVDEP 112
Db 84 EDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVDEP 143

QY 113 SCGSEVCVMYHOPSAFAGIGGYPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGET 172
Db 144 SCGSEVCVMYHOPSAFAGIGGYPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGET 203

QY 173 ELTTPVLPEETOEDAKKTFKESREAAALNLAY 204
Db 204 ELTTPVLPEETOEDAKKTFKESREAAALNLAY 235

RESULT 17
US-09-906-742-137
; Sequence 137, Application US/09906742
; Publication No. US20030023054A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/906,742
; CURRENT FILING DATE: 2001-07-16
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-09-906-742-137

Query Match      98.7%; Score 1092; DB 10; Length 382;
Best Local Similarity 96.2%; Pred. No. 7.8e-102;
Matches 204; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

QY 1 GRLLS-----GQPVCRGGTQPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSIES 52
Db 24 GRLLSASDLRLGGQPVCRGGTQPCYKVIYFHDTSRRLNFEFEAKEACRRDGGQLVSIES 83

QY 53 EDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVDEP 112
Db 84 EDEQKLIKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWWYVDEP 143

QY 113 SCGSEVCVMYHOPSAFAGIGGYPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGET 172
Db 144 SCGSEVCVMYHOPSAFAGIGGYPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGET 203

QY 173 ELTTPVLPEETOEDAKKTFKESREAAALNLAY 204
Db 204 ELTTPVLPEETOEDAKKTFKESREAAALNLAY 235
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Db 144 SCGSEVVMYHQPAPAGIGPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGET 203
Qy 173 ELTPVLPEETQEDAKTKFKESREAAALNLAY 204
Db 204 ELTPVLPEETQEDAKTKFKESREAAALNLAY 235

RESULT 18
US-09-906-838-137
; Sequence 137, Application US/09906838
; Publication No. US20030027143A1
; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/906,838
; CURRENT FILING DATE: 2001-07-16
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16

; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 137
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-906-838-137

Query Match 98.7%; Score 1092; DB 10; Length 382;
Best Local Similarity 96.2%; Pred. No. 7.8e-102;
Matches 204; Conservative 0; Mismatches 0; Indels 8; Gaps 1;

Qy 1 GRLLS-----GQVCRGGTQPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSIES 52
Db 24 GRLLSASDLRLGGQPVCRGGTQPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSIES 83
Qy 53 EDEQKLIKFIENLPSDGDGFWIGLRRRREKQSNSTACQDLYAWTDGSIQFRNWWYVDEP 112
Db 84 EDEQKLIKFIENLPSDGDGFWIGLRRRREKQSNSTACQDLYAWTDGSIQFRNWWYVDEP 143
Qy 113 SCGSEVVMYHQPAPAGIGPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGET 172
Db 144 SCGSEVVMYHQPAPAGIGPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGET 203
Qy 173 ELTPVLPEETQEDAKTKFKESREAAALNLAY 204
Db 204 ELTPVLPEETQEDAKTKFKESREAAALNLAY 235

RESULT 19

US-09-907-613-137
; Sequence 137, Application US/09907613
; Publication No. US20030027145A1
; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,613
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07